M W. GORMELY

1931

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FOREST SURVEYS DIVISION

VICTORIA, B.C.

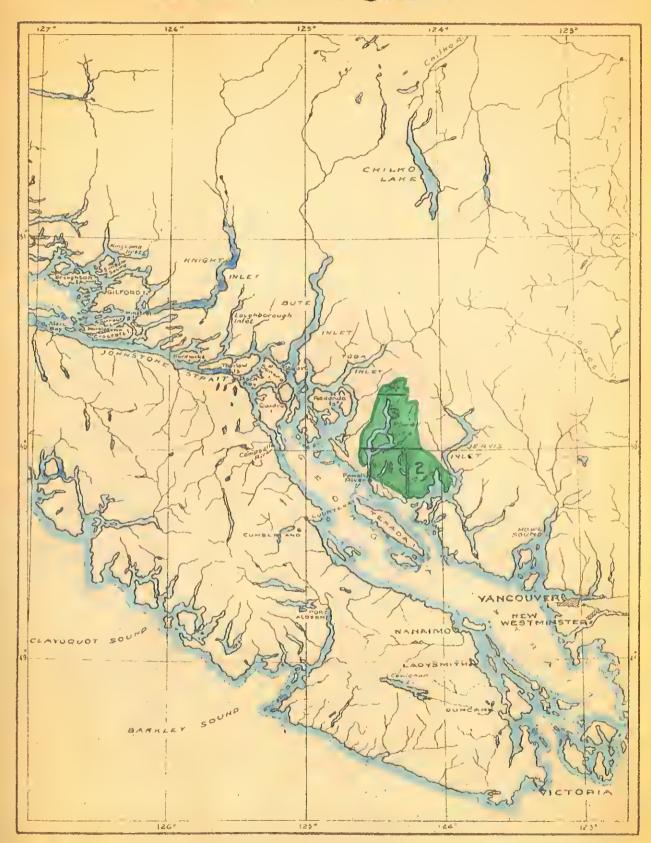
SURVEY & PRELIMINARY MANAGEMENT RECOMMENDATIONS

M. W. Gormely 1931.

Forest Survey No.R.27 Survey file No.0105222. Administration file No. 080724.

Accompanying this report:

Forest and topographic map in four sections, scale 40 chains to the inch.
Same; reduced scale 2 miles to the inch.



- Scale-31.58 Miles to linch -

The Powell Lake drainage, and adjacent areas topographically suited to administration as a Provincial Forest, were examined in 1930 for the purpose of determining the value and the boundaries of the proposed Forest, and forest conditions within the boundaries.

This area has produced fine stands of timber and has been the scene of some of the largest operations on the coast. The slash has been persistently burned, in some cases several times in successive years, and the productive quality of the soil reduced thereby. Over 40,000 acres are not reproducing satisfactorily and may require planting. From the standing timber left and the young stands established, the Forest could produce a sustained yield of 42 million board feet annually, though present prices will not permit this utilization. After planting and regulation this annual yield could be increased to over 50 million feet.

The area recommended as a Provincial Forest is 680 square miles and excludes tracts suitable for agricultural development. A soil survey was made by K.F.Moffatt in conjunction with the forest survey and his report is attached.

The owners of private timber assisted us with estimates of their holdings which were used in this report after checking in the field, assistance was also given by the district rangers, whose local knowledge saved much fresh field work.

The report and maps are based on conditions as in the spring of 1931.

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THE POWELL FOREST

SYNOPSIS

General Location:

The Powell Forest covers the following watersheds: Powell Lake, Haslam Lake, Gordon Pasha Lakes and Hotham Sound, in the New Westminster and Range 1, Coast, Districts.

Area within recommended boundary:

area within recommended boundary:	
680 square miles (a) Vacant Crown land	
Classification of areas (in acres)	
Merchantable timber - (a) Accessible	acres
Immature timber - (access) (a) 1 - 20 year age-class 25,390 acres (b) 21 - 40 " " " 22,120 " (c) 41 - 60 " " " 8,150 " (d) 61 - 80 " " " 200 " Total	27
	,
Forest Land unsatisfactorily stocked: (Access)	
(a) Logged and burned 42,260 acres (b) Non-commercial cover 3.390 " Total	į tr
Total Productive Forest Land	tf '
Total Area of Forest 434,660	ı 1t
Summary of sustained annual yield:	
Rotation 100 years. Present accessible productive capacity 42,470 Ultimate productive capacity	

Litar s

ESTIMATE OF MERCHANTABLE TIMBER - M.B.M.

	Accessible			Inaccessible		Total			Salvageable chingle bolts (corde)			
Speciee	'Crown	'Li cences	Total	Crown	Licences	Total	Crown	'Licencee	' Total	Crown	'T.Lle	Total
Western red cedar Douglas fir Western hemlook Balsam (silver fir) Yellow oedar (cypress) Sitka spruoe Western white pine	322,580 255,730 363,280 135,090 53,200 14,840 5,510	597,650 475,040 312,300 152,110 25,840 7,730 3,350	920,230 730,770 675,580 287,200 79,040 22,570 8,860	32,390 14,850 56,240 37,450 7,690	1,350 510 840 680	33,740 15,360 57,080 38,130 7,690	270,580 419,520 172,540 60,890 14,840	152,790 25,840 7,730	953,960 746,130 732,660 \$25,330 86,730 22,570 9,020	143,000	22,000	165,000
Total M.B.M.	1,150,230	1,574,020	2,724,250	148,780	3,380	152,160	1,299,000	1,577,400	2,876,400	143,000	22,000	165,000
% of total volume	40.0	54.7	94.7	5.2	.1	5.3	.45.2	54.8	100			
Area (acres)	38,580	40,450	79,030	3,830	200	4,030	42,410	40,650	83,060			
% of mature area	46.5	48.7	95.2	4.6	.2	4.8	51.1	48.9	100			,

Legging sinca survey
See new estimate.

DESCRIPTION OF AREA

Boundaries and general topography

The south boundary follows Jervis Inlet and agricultural land adjacent to the highway from Thunder Bay to Powell River; for the rest the Forest boundary follows the height of land around watersheds previously mentioned. The Forest lies in very mountainous country for the most part. Steep, narrow valleys with numerous lakes are included. Powell Lake, about 30 miles in extreme length, is the principal topographic feature. Streams draining the area are shallow and fast flowing.

An extensive comparatively level area exists from Haslam Lake south and west to Malaspina Straits and Thunder $^{\rm B}\!\!$ ay.

Climate:

The Forest enjoys the moderate south coast climate. Along the south boundary of the Forest from Powell River to Jervis Inlet precipitation averages 36.27 inches annually, while at Goat Lake it is 65.93 inches. The average temperature at Powell River is 50°F. These averages cover a period of 15 years.

Industries:

Agriculture: There are several settlements near the town of Powell River which produce vegetables, fruit and dairy products. None of these areas are large, as the available farm land in this vicinity is not extensive. The town provides an adequate market for all the farm and dairy products produced. A good automobile road connects Powell River with Lund on the north and Thunder Bay on the south.

Westview; a suburb of Powell River, has a pupulation of about 1000. Most of the inhabitants are connected with the pulp and paper industry but a few small farms and dairies have been established here. Connected by stage and telephone to Powell River, U.S.S, boats stop at the Government wharf here on request.

Myrtle Point: a small farming district containing about twenty settlers. Formerly headquarters camp of the Bloedel, Stuart and Welch Logging Company.

Lang Bay: a small farming district with about 50 or 60 settlers. Formerly headquarters samp of Brooks,

The second secon

melakon si ngas ni fioti siliko ek ana ni tana inana

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Looking N.E.into Giovanno Valley - small farms raising vegetables, sheep and goats.
Surrounding country badly burned. Fire damaged timber logged for shingle bolts.
Patches of reproduction and scattered seed trees typical of Compartment 12.

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Action of Powell Single of the particle of Lagrance of Send Send of Send of the off of the off.

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Bidlake and Whittall Logging Company. U.S.S. boats stop regularly at Government wharf.

Stillwater: a small farming district with about 30 settlers. Formerly headquarters camp of Brooks, Scanlon and O'Brien Logging Company. At present it is the base of operations for the Lois River power project. The power-house is being built here. U.S.S. boats call regularly at the old company wharf.

Olsen's Landing a small farming settlement on Powell Lake composed of seven families. No regular connections with Powell River.

Giovanno Valley a small farming settlement of three families, entirely within the Forest. Situated between Giovanno and Powell Lakes. No regular communication with Powell River.

Powell River, Westview, Lang Bay and Stillwater have post offices.

Mining: There is one small mine, the Romano Mine, in operation on Goat Island. It is a copper mine of little importance. Several prospect holes have been made in various parts of the country but few claims have been staked. There seems to be little possibility of development in this industry, as the area has been fairly thoroughly prospected.

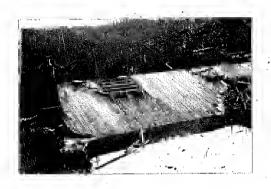
Trapping: Trap lines are operated in the Eldred River and Horseshoe River valleys, also along the ridge east of Freda Creek and the ridge west of Hotham Sound. Powell and Daniels Rivers have been trapped for many years but at present nothing is being done here. Mink, martin, weasel, otter and beaver are to be found.

Recreation: Hunting is popular in this district although somewhat restricted of late years due to the disappearance of the big game. Bear, cougar, deer and mountain goat formerly plentiful are now very scarce. Goat Island has been created a game reserve. Fishing is excellent in all waters both in and around the forest.

Recreation and Summer Resorts: There are two summer resorts on Powell Lake. Both are situated near good fishing areas. Powell River, with its fine hotel, attracts a large number of vacationists. From here boating, on both Powell Lake and Malaspina Straits, and motoring are very popular. Also there is a fine bathing beach.

<u>Hydro-electric Power Development:</u> The Lois River power project includes the raising of the elevation of Lois Lake

about 100 feet by means of a large concrete dam on Lois River. At present a temporary log-crib dam 100 feet high has been completed and will raise the level of the lake 50 feet. The water is diverted from the dam into a pipe line running through a tunnel cut in solid rock for a distance of one mile; thence to an open surge tower and finally to the turbines in the power house at Stillwater, developing about 22,000 horse power. The permanent dam will double the developed power which is carried over land lines to the pulp and paper mills at Powell River.



Temporary log-crib dam - Lois River.

Forest Species:		% of total volume of merchant-
Common name	Botanical name	able timber
Western red cedar	Thuja plicata	33.1
Douglas fir	Pseudotsuga taxifolia	26.0
Western hemlock	Tsugo heterophylla	25.5
Silver fir (balsam)	Abies grandis)	11.3
,	Abies amabilis)	
Yellow cedar(cypress)	Chamaecyparis nootkaten	sis 3.0
Sitka spruce	Picea sitchensis	•8
Western white pine	Pinus monticola	•3

Forest types:

The general forest type is a mixture of fir, cedar and hemlock. Other species, silver fir (balsam), yellow cedar, pine and spruce attain dominant proportions over small areas. As a rule, in the mature timber hemlock, silver fir and cedar form the valley bottom type, while fir, cedar and hemlock form the slope type. On the higher slopes just under scrub line hemlock, silver fir, yellow cedar becomes the prevalent type. There are few pure stands in the forest and most of these are due to aburn which killed all but the most rugged trees, such as the thick-barked fir. "Pure" stands have been defined as including 70% or more of the main species and any species included in a type name provides 20% or more of the total volume of mature timber or of the stocking of immature.

Reproduction:

The immature stands are all mixed fir - cedar - hemlock in varying proportions. There are few pure stands in the forest. 13% of the total area is covered with young growth satisfactorily restocking, of this 85% is under 40 years old.

The 1-20 year age-class is well distributed over the area and has generally resulted from logging operations.

The 21-40 year age-class is well scattered over the forest also but has generally resulted from old burns. In most cases the logging in these areas has been after the original burn, this, however, has not affected the reproduction seriously.

94% of the 41-60 year age-class is in one stand

in the Horseshoe River valley. The rest is near Freil Lake. These stands result from old timber burns.

The 61-80 year age-class occupies an insignificant area near Gordon Pasha Lake. It is oberstocked and on a poor site. This area has been classed as 41-60 year old in future yield estimation.

Although in many cases fir forms a very small portion of the immature stands, it may be expected that it will provide a much larger proportional volume of mature timber than any of the other species. This is because of the comparatively low mortality of fir in young stands.

Site quality:

No attempt has been made to differentiate between stands on sites of various quality in the estimate of future yield in this Forest, as no accurate figures are available for these mixed stands. For descriptive purposes a differentiation into five site qualities has been attempted, based on general observation combined with height-age measurements, namely, poor, fair, medium, good, excellent. It was found that on a medium site the height in feet of dominant trees is approximately equal to the age in years.

Forest land not satisfactorily stocked:

Areas containing less than the minimum number of trees per acre indicated below, for the various age classes, are considered as not satisfactorily stocked.

Age-class	years				-	-	
Trees per	1000	750	, ,	, .	350		

On this basis 42,260 acres were found to be understocked, as compared with 55,860 acres of satisfactorily stocked young growth. Much of this will require artificial reforestation to produce stands of commercial value. Successive burns after logging are responsible for the failure of natural reforestation.

Non-commercial cover:

The areas so classified are productive forest sites whose present cover is of no commercial value, alder, willow, maple, wild cherry, dogwood, etc. or conifers formerly of merchantable quality but so decayed by disease or

insects as to be useless.

Deciduous cover almost invariably contains a number of young conifers growing up in the shade of the broadleaf trees. It is expected that these conifers and their progeny will ultimately succeed in reforesting the areas.

An effective burn through the decadent coniferous cover would open the area for reproduction. This should be done in conjunction with neighbouring slash burns and wherever the decadent stand is well isolated from good timber and reproduction. If the decadent area is sufficiently open to allow restocking, or if reproduction is already coming in satisfactorily no burning should be done.

Infestation:

Insect infestation is about normal in this Forest. There are no obvious epidemics. Bark beetles are noticeable in hemlock over quite a few areas - silver fir is also somewhat affected in the same areas. The cedar borer is active in some areas - noteably near Hotham Sound. Leafeaters, on the needles of fir reproduction, were observed in the vicinity of Powell Lake but to no great extent.

FOREST UTILIZATION

Present utilization:

A few small operations are active in the vicinity of Powell Lake, noteably at Chippewa Bay and on Goat Island. A small pole operation is active at Baker Bay in Hotham Sound. All of the above are power operations. A horse-logging operation on Gordon Pasha Lake is logging shingle bolts, poles and piling, also cutting that timber which is to be flooded by the dam on Lois River. Several shingle bolt operations are active along the shores of Powell and Goat Lakes. Most of these are hand logging operations but there are two horse and flume shows and one motor truck show. The Chippewa Bay operation is the largest in the forest and employs twelve men outting about 15 M.B.M. per day. It is a pole-railroad operation, large-flanged log cars are pulled by a gasoline locomotive over peeled poles to an incline where a snubbing machine lowers them to the log dump on the The other operations are very small. The total present utilization is about 5.000 M.B.M. per year.

There is a small sawmill at Powell River. It is a well-equipped, up-to-date mill employing about twenty men outting about 20 M.B.M. per day and drawing its supplies from the Powell Lake logging operations. The major product of this mill is yellow cedar lumber. Nearby is a shingle mill which also gets its material from Powell Lake operations. It cuts about 120 M. shingles per day. Vancouver and Powell River are the major markets for the products of these mills. The Gordon Pasha Lake Hotham Sound operators ship their products directly to Vancouver. The present utilization may be increased about eight times without exceeding the calculated present accessible productive capacity of the Forest. The best and most accessible timber has been logged by two or three large operations which were completed three or four years ago.

Utilization recommendations:

Most of the timber in the forest is available for utilization during the next few years as it is both mature and accessible. Certain areas, being in a further state of decay or in danger of having their best outlet cut off, may be assigned for more immediate utilization. Compartment 27, an example of the former case, should be logged immediately, especially the south part of it which is most accessible and most seriously decayed. Compartment 10 should be logged before the steel is further removed from the old

Eagle River and Northern Railroad and before the permanent dam is built on Lois River disrupting the outlet. Furthermore, the south-west portion of this area has been badly burned and decay is rapidly becoming a serious factor.

Utilization problems:

The best and most accessible blocks of timber are alienated and will be logged only at the owner's convenience. This alienation of the best blocks of timber is one of the main difficulties in the way of complete utilization in the forest. The licence-holders who, as has been proven in former cases, are willing to log the best portions of their own limits only, certainly will be reluctant to remove the less accessible, and usually poorer, Crown timber. Of course, the present price of logs, together with the high cost of logging large blocks, is a tremendous factor against complete utilization. In order to make even a small profit, operators are forced to remove only the best and most accessible timber as quickly as possible.

Booming facilities, harbours and surrounding waters:

Booming facilities are quite adequate in all waters both within and surrounding the forest. There are fine harbours along the shores of Malaspina Straits and all of these are excellent booming grounds. Powell River, Westview, Myrtle Point, Lang Bay and Stillwater all have fine harbours which have been used as booming grounds by operators in this district. The Powell River harbour is exceptionally good having, besides a fine Government wharf, an excellent private wharf capable of docking several deep-sea vessels as well as the various large passenger vessels which call at this port. excellent booming grounds adjacent to the forest are Thunder Bay, Saltery Bay, St. Vincent Bay, Baker Bay and Goliath Bay. Several other small bays along the sea coast could be used to advantage for small booming grounds. On Powell Lake, Chippewa Bay is the best booming ground but there are many other well-protected bays that might be used for this purpose. Booming on Gordon Pasha and Lois Lakes has been carried on effectively for many years.

The surrounding waters are Malaspina Straits, Jervis Inlet and Hotham Sound. All of these waters are navigable to deep-sea vessels at all times. A very dependable towing service is enjoyed between this district and the various log markets.

MANAGEMENT RECOMMENDATIONS

Main objects of management:

Good management in this forest will be extremely difficult until the large area of alienated timberland (49% of the timbered area) has reverted to the Crown. A management plan based on sustained yield is not practicable as yet. However, the main objects of management at the present time are:

- l. To judiciously regulate the cut of Crown timber so that, as far as possible, only salvage cuttings and thinnings be made except when economic operation requires that operators in alienated timber should be allowed to cut such Crown timber as is tributary to their operations.
- 2. Adequate and systematic fire protection throughout the forest.
- 3. Artificial reforestation of the large understocked area as soon as possible after the fire risk has been sufficiently reduced.

Yield:

The capacity for sustained annual yield is based on a rotation of 100 years. This rotation was deduced from yield estimates supplied by J.L.Alexander and represents the approximate economis rotation from a commercial volume production standpoint. An average yield of 27,270 f.b.m. per acre is estimated at 100 years old, this being equivalent to a mean annual increment of 272.7 f.b.m.per acre.

The accessible, stocked, forest area is as follows:-

Туре	Area (acres)	Estimated mature volume (f.b.m.)	Years cut
Accessible mature timber	79,000	2,724,000,000	64
41-60 years old	8,300	226,341,000	5
21-40 " "	22,100	602,667,000	14
1-20 " "	25,400	692,658,000	17
Totals	134.800	4,245,666,000	100

Using Hanzlik's formula, Y = VM + I

where

Y = sustained annual yield Vm= present accessible volume

r = rotation - 100 years

I = mean annual increment on immature areas .

The Forest can produce an accessible sustained annual yield of $2.724.000.000 \div 272.7 \times 55,860 = 42,470,000 f.b.m.$

Determination of ultimate productive capacity:

Total productive area in forest = 184,570 acres.

Mean annual increment based on a 100-year rotation = 272.7 f.b.m. per acre.

Ultimate sustained annual yield = 184.570×272.7 = 50.330.000 f.b.m.

Silvicultural treatment:

Method of cutting: Clear-cutting has been the universal method throughout this Forest. It has been believed to be the only economical method possible under prevailing conditions. The large virgin timber necessitates large, powerful, expensive machinery. The heavy damage to trees of small diameter (usually hemlock) results in a heavy accumulation of small logs and debris, and few living trees remain on the area. Repeated slash fires in this Forest have been so intense as not only to destroy or severely damage any trees left on the ground, but also to reduce the site quality materially.

It is maintained that trees smaller than 20" d.b.h. cannot be logged profitably and the determination of both present and ultimate sustained yield was made on a basis of utilization to this minimum diameter. It is possible, however, that selective logging, with relogging of smaller material may in the future both increase the average volume per acre logged and improve natural reforestation. Experiments in selective logging now being conducted on the Pacific Coast may be expected, if successful, to affect logging practice here.

Apart from selective logging, reforestation would be improved if clear cutting could be done in groups, settings being separated by green timber from each other so that the logged area may have a chance to seed in before

the intermediate settings are logged.

Slash disposal:

Slash disposal has been by broadcast burning. This is the prevailing method on the coast. Too often, however, these fires have become uncontrollable and have burned timber and young growth coming in after a previous burn. This state of affairs is primarily responsible for the presence of 42,300 acres of not satisfactorily restocking land. Slash should be burned during the first season after logging, in the spring or fall when weather conditions permit both good burning and good control and should be planned with due regard for all natural or artificial firebreaks such as rivers, railroad grades, etc. Next to protecting mature timber it is most important to prevent subsequent burns in all restocking areas.

Reforestation:

A large proportion of the 42,300 acres of not satisfactorily restocked land is suitable for artificial reforestation. Some of the area will slowly restock naturally.

Due to the badly burned condition of the soil, the area to be artificially restocked should be planted rather than seeded. The planting of fir and white pine is very desirable. Both of these species thrive in the open and both are very valuable species. White pine blister rust is practically unknown in this locality so that the pine plantations should be quite successful.



Lot 913 - looking S.from vicinity of Duck Lake. Logged and burned - not restocking satisfactorily - heavy ground cover - fireweed, fern, etc. Note lack of seed trees.

PROTECTION RECOMMENDATIONS

Fire damage in the last 10 years:

During the last ten years about 87,000 acres were burned over. A large portion of this area was either slash burned or reburned. The soil on a major portion of the reburned areas is in very poor condition. The heaviest fire year was 1922 when approximately 50% of the total area was either burned or reburned. The succeeding years of 1923, 1924 and 1925 were also bad fire years. During these 4 years burns amounted to about 95% of the total area burned in the past 10 years. During this time two of the largest logging companies on the coast were operating in this. district as were several other smaller operations. Since the cessation of these operations the burns have been negligeable.

Protection plan:

The Powell Forest is under the direction of the Campbell River Supervisor District. During the fire season an organized and effective fire patrol is maintained by launch in the Powell Lake and Jervis Inlet-Hotham Sound watersheds by the Powell River and Sechelt Ranger Stations respectively. The Powell River - Thunder Bay road, with its local branch roads, provides for excellent patrol by car of the south portion of the forest. A car may be run to Haslam Lake via Cranberry Lake but, while private row boats and launches are to be found on Haslam Lake, there is no Forest Branch boat for patrol purposes. There are two lookouts adjacent to this forest - a Forest Branch lookout on Texada Island overlooks the flat south portion of the Powell Forest while a private lookout west of the dam on Powell River overlooks lower Powell Lake and Inland Lake and is in direct communication with the Powell River Ranger Station. This lookout is maintained by the Powell River Company.

However, there is a large portion of the forest, especially in the north and north-east, that is insufficiently protected. Further protection in the form of a few well-situated lookouts would be very advantageous. Recommended sites are as follows:

- 1. Unnamed mountain, 3900' elevation, north-east of the head of Haslam Lake.
- 2. Unnamed mountain, 5000' "immediately north of Siwash Creek.
- 3. Unnamed mountain, 2500' " east of Horseshoe Lake.
- 4. Unnamed ridge, 3000' " " south-east of Khartoum Lake.

The object in view, on recommending these sites, is to protect the remaining mature timber, most of which is very inadequately patrolled due to the lack of both men and money for protection purposes in this district. Because of the mountainous nature of this country aeroplane patrol would be the most efficient and all private and commercial aviators operating in this district should be urgently requested to report any fires to the ranger at Powell River or Sechelt.

Trails and railroad grades:

There are many trails in the forest, cruiser's, trapperes and hunter's trails, but few, if any, of these trails are kept open for protection purposes. One or two trapper's trails are roughly cut out now and again by the trappers but not sufficiently for quick, easy travel over them. The most important trails and railroad grades are as follows: Powell-Daniels watershed trail runs north along the west side of Powell River and a branch follows the west side of Daniels River. A poor trail made and used by trappers but has been neglected. Could easily be made into a good foot trail at comparatively small expense. The trail runs through a fine, well-timbered area.

Eldred River trail: runs north from Goat Lake along the west side of the river to the first main forks. This trail is well cut out for about two miles from the lake, beyond this it is roughly cleared by the trapper who made it. It is recognizeable for some distance along each fork but is a poor trail here. Very little expense would make it a first-class foot trail.

Freda Creek trail: runs north from Gordon Pasha Lake to Freda Creek; thence along the east side of the creek to Freda Lake. This trail was recently cut out by apruising party and is in fine condition as far as the first lake. Another trail runs along the west side of the creek from Horseshoe River to the first lake. This is a recent trail and is in fair condition. It runs through a large area of windfall and is not a good trail to preserve.

A trapper's trail runs from Horseshoe River along the south side of Freda Creek until it crosses the main Freda Creek trail then it goes in an easterly direction to the top of the adjacent ridge. It runs along this ridge in a northerly direction to a point west of S.T.L. 2008. This trail is kept roughly clear by the trapper but is of little importance from a protection standpoint.

Power line trail: the power line and its maintenance trail from Stillwater to Powell River is very recent and well cut. It runs through compartment 6 and may be useful for protection purposes.

Several short skidroad and fire line trails are to be found in the forest but are of minor importance for forest protection purposes.

Main line of the Brooks, Scanlon and O'Brien Logging Company: runs north from Stillwater through Horseshoe River valley to Dodd Lake. All but the first 4 miles to the Lois River dam is abandoned. The High-Line Spur runs from Nanton Lake north-west to Lewis Lake. The Scanlon Creek branch is entirely separate from the main system. This grade runs from Gordon Pasha Lake along both sides of Scanlon Creek. All these grades are in good condition and will be very useful for protection purposes.

Main line of the Bloedel, Stuart and Welch Logging Company: runs north from Myrtle Point to Duck Lake; thence east deep into Lot 913. A spur goes north to Haslam Lake. All grades are in good condition. Entire system abandoned.

Main line of Brooks, Bidlake and Wittall Logging Company: runs north-west from Lang Bay to a short distance south of Duck Lake. Entirely abandoned. This grade is badly overgrown with alder saplings in some places but it could be cleared easily and cheaply, if considered necessary for protection purposes. Many old spurs run east through Lot 913 but these are in poor condition.

An old telegraph trail branches from the main line grade at the north boundary of Lot 5500 and runs west around the south end of Hammil Lake to a local road about a mile beyond.

Main line of the Goliath Bay Logging Company: runs north from Goliath Bay to Freil Lake. Grade abandoned but in good condition.

Recommendations for improved protection:

- 1. That main trails, as mentioned above, be cut out as well as is necessary, especially those in the remaining timber areas.
- 2. That such trails (also main railroad grades as above) be periodically inspected and kept in proper condition.
- 3. That a lookout system, as suggested above, be introduced or that more adequate patrol be made in the vicinity of the remaining timber.
- 4. That, when planning outlets for future logging operations, routes through well established stands of second growth be avoided as far as possible.

- 5. That rowboats, suitable for use with outboard motors, be kept on the following lakes: Haslam, Horseshoe, Dodd and Khartoum, in addition to the one now kept on Lois Lake.
- 6. That a patrolman be stationed at Lois Lake during the fire season to cover the Horseshoe River valley and Gordon Pasha Lakes watershed and that proper communication be maintained between him and the ranger station at Powell River.

APPENDIX 1.

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Looking E. across Inland Lake - Mature timber Compartment 2.

1. Description of Individual Compartments.

Compartment 1, Sub.A, fir - oedar - hemlock, 1914.

Partly logged by high lead, A-frame and handlogging for saw-timber 15 to 20 years ago. Burned, in
common with the greater part of the area adjacent to
Powell Lake, about 30 years ago. Site quality generally
poor but patches of medium site quality are to be found
throughout the area. Seed trees are plentiful and generally well scattered and, as the stocking is quite
satisfactory, timber sales could be made in portions of
the south half of the area which contain 3 to 5 M.B.M.
per acre, fir - hemlock - cedar, provided contract conditions protect the young stand from unnecessary damage
in logging and slash burning. The former stand varied
from about 5 M.B.M. per acre on poor sites to 50 M.B.M.
on a few patches of good site. The topography is badly
broken by rock outcrop, bluffs and slides over most of
the area.

A logging operation in Compartment 17 Sub A takes its timber out to the lake over a pole railroad through the north end of this compartment, part of which it has recently logged.

Compartment 1, Sub. B, hemlock - oedar - fir, 1915.

This area is similar to Compartment 1 except that it has been logged by ground lead and fore and aft roads. These roads are badly deteriorated and will be of no value to a future operation. Seed trees are very soattered and of no commercial value - largely poor hemlook - cedar. Site quality good.

Compartment 1, Sub.C, fir - hemlock - cedar, 1914.

Very similar to Compartment 1, Sub B, but the main fore and aft logging road is used as a trail to Inland Lake and is kept open. Site quality fair. Former stand 25 M.B.M. per acre, fir - cedar.

Compartment 2, mature fir.

The timber is of poor grade owing to the large degree of decadence and fire damage prevalent in the stand. However, it is quite accessible and will probably be logged in the near future. The area west of Inland Lake is very broken rooky country and of poor site quality while the area east and south of the Lake is smoother and a good site. However, it is in the latter area that the damage is most prevalent. A considerable portion of the fire-killed cedar may be salvaged for shingle bolts but the bulk of timber is saw log material as is typical of this forest.

Compartment 2A, non-commercial cover.

Decadent and fire-killed timber of little or no merchantable value. The area lies south and west of Compartment 2. The site is of medium quality and the area quite accessible.

Compartment 3, Sub.A, non-productive.

A barren and sorub area. Barren area in the north part of the area largely due to severe burn about 1900 which exposed a large area of mineral soil and rock.

Compartment 3. Sub B. non-productive.

Exactly similar to Compartment 3, Sub. A.

Compartment 3, Sub. C, non-productive.

Similar to Compartment 3, Sub. A.

Compartment 3, Sub. D, non-productive.

The area is entirely burned over by severe 1900 burn but a scrub site was typed out in the south end of the oompartment.

Compartment 4, Sub. A, mature cedar - fir. 14 Pulp 14 Cq

The timber is of low grade largely due to poor site. The country is steep and broken with shallow soil and frequent rook outcrop and bluffs. A burn in 1924 destroyed most of the timber in the south-west corner of the area. The compartment is only a fair logging chance. Old logging railroad grades reach up to the south boundary and are in good repair at the present time. Area should have been logged in conjunction with railroad operations.

Compartment 4, Sub. B, mature cedar - hemlook.

The timber is of good size and grade. The country is fairly smooth making a good logging chance. A branch of an adjacent logging railroad has been projected through the area but never constructed. The timber is less accessible than that of Compartment 4, Sub. A as the outlet is longer and more difficult. Area should have been logged in conjunction with adjacent railroad operation. An alternate outlet is via Haslam Lake to Myrtle Point or Westview - making use of old railroad grades or present roads.

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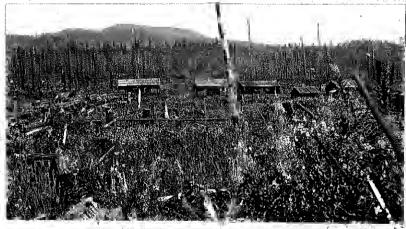
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Abandoned logging camp. Lot 913 - looking N.E. from vicinity of Duck Lake - Logged and burned - heavy ground cover no reproduction. Compartment 6. Timber in Compartment 4 Sub A in background.

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Compartment 5, hemlock - oedar - fir, 1924.

Large part of area logged and burned about 5 years ago - high lead and handlogging methods used. A railroad operation tapped the north and south ends of the compartment. Handlogged along steep parts of lake shore. The site quality in general is good. The main type is made up of several separate sub-areas. Former stand ran about 40 M.B.M. per acre, fir - cedar. Seed trees at the south end of the lake would make a small timber sale running about 25 M.B.M. per acre, - cedar - fir - hemlock. The topography is varied - abrupt and broken along sides of lake and fairly low and smooth at ends of lake. Logging chance medium.

Compartment 5A, logged or burned 1924.

A sub-compartment consisting of several subareas of not satisfactorily restocking fir - cedar hemlock. North-west areas badly burned in 1900 and again
in 1924. Sub-areas which were logged have been left with
practically no seed trees and the slash burn has injured
the soil in many cases. However, in general there are
seed trees sufficiently close to ensure sufficient restocking in time. Some shingle bolts are to be had at the north
end of the lake.

Compartment 5B, fir- hemlook - cedar, 1895.

A sub-compartment consisting of several sub-areas burned about 35 or 40 years ago. These areas are part of an original larger burn but escaped the 1924 fire. Seed trees are widely scattered or in small patches but of no merchantable value. Site quality varies from poor to medium - areas are on higher levels where soil is generally shallow.

Compartment 6. logged or burned, 1921.

Except for occasional patches of scrub or decadent timber there are no seed trees on the area. The site quality was originally excellent but the soil seems to have been damaged to some extent over most of the area. However, the site is still good. Ground cover is still quite sparse. Two railroad operations have been conducted in this area and their grades cover most of the compartment, many of which are in good condition. A good trail runs between the main line grades and another between the westerly main line grade and an old spur of the Eagle River and Northern Railroad. The main road to Powell River runs adjacent to the south boundary of the compartment. The power line (and its maintenance trail) from Stillwater to Powell River runs through the south end of the compartment. An area of about 2000

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Looking N.E.across Dodd Lake from S. end. Note
effect of repeated severe burns - exposed rock,
non-productive site - Compartment 21 Sub A.
Narrow band of scattered reproduction along
shore - also on flat back from lake - Compartment
7. Timber in background - Compartment 10.

acres in the centre of the compartment has been cut out of the forest as it has agricultural possibilities.

Compartment 6A, fir - hemlock - cedar, 1921.

This sub-compartment consists of several separate sub-areas generally near decadent scrub or other timber considered unmerchantable by the logging operators. The seed trees are usually in patches and the restocked areas surrounding them. The site quality varies from good to excellent. Former stand varied from 40 to 50 M.B.M. per acrefir - cedar - hemlock.

Compartment 6B, non-commercial oover.

Decadent timber mentioned in Compartment 6A.

Compartment 7, logged or burned.

Logged and burned 3 to 5 years ago. This was a railroad operation and high lead was used exclusively. Large portion of area reburned 2 or 3 times after logging. Bad burns in 1922, 1925 and 1926. Most of area burned clean practically no seed trees and reproduction is very slow to Soil has been badly burned over a large area. restock. However, good ground oover is springing up and will soon provide humus. The lack of seed trees is the most serious factor affecting the future restocking of the area. site quality was originally one of the best in the forest and comparable to the best on the coast. The burns may have reduced the site quality somewhat but it is still regarded as excellent. Former stand ran from 50 to over 100 M. B.M. per aore - fir - cedar. Parts of this stand are said to have run as high as 300 M. B.M. per acre. graphy is generally smooth except near Dodd and Windsor Lakes where bluffs, slides and ravines are prevalent. Many railroad grades, all in good condition, cover the area. The main line, called the Eagle River and Northern Railroad, ran from Dodd Lake to Stillwater - the last 4 miles of which are still being operated over during construction of the Lois Lake dam. A large volume of shingle bolts are to be had from several burned but unlogged areas. The logging chance is good.

Compartment 7A, hemlock - cedar - fir, 1924.

A sub-compartment consisting of several leng strips of type around the border of the compartment - close to standing timber. These areas were logged or burned with the main poperation but the presence of seed trees has provided very satisfactory stocking. Site quality good but, due to generally higher elevation, not equal to that of Compartment 7. Also the logging chance is generally poorer. Soil damage is negligible in this type being on the edge of the burns.

Compartment 7B, hemlook - fir - cedar, 1899.

A sub-compartment consisting of several areas of type, due to an old burn, that escaped the more recent fires. Areas are in the northern part of compartment and are separated by the more inaccessible parts of Compartment 7. The site quality is only medium but the stocking is very satisfactory. Seed trees are very frequent and scattered. Topography is generally broken - rook bluffs and slides are noticeable. Logging chance poor - accessibility of some areas questionable - long haul of 20 to 30 miles to tide water. Possible outlet via Goat and Powell Lakes, for the most northerly areas. Former stand from 20 to 60 M.B.M. per acre - fir - cedar - hemlook. A few small sub-typee of 60 year second growth have been included. These are on poor sites, are somewhat inaccessible and are insufficient for a logging chance by themselves.

Compartment 8, fir - hemlock - cedar, 1878.

Area badly burned about 80 years ago and reproduction came in slowly becoming established satisfactorily about 50 years ago. A considerable mixture of 61 to 80 years second growth is present and this shows a remarkably fine merchantable volume even after cedar poles and fir hemlock piling has been cut out. In untouched portions of the compartment this old second growth runs over 50 M.B.M. per acre. The site quality of this type is said to be one of the best in the country and is similar to that of Compartment 7 as it was before the repeated burns. The stand appears to be particularly healthy. Most of the area has been cut over for poles, piling and shingle bolts so that further thinnings need not be contemplated for some time. It is unfortunate that the very best portions of this fine sand are to be ruined by the flooding of the Gordon Pasha 3 Lakes under the Lois River water-power project. A large portion of this compartment will be flooded eventually when the permanent dam is built. The temporary dam just constructed will flood some of the area. The old grade of the Eagle River and Northern Railroad from Compartment 7 runs through this area - also a few spur-line grades have been made here for the removal of bolts, poles, etc.

There is a small horse logging operation in this area, logging bolts, poles and piling which are towed to the end of Lois Lake then lodded on cars and taken to the sea at Stillwater over the operating portion of the Eagle River and Northern Railroad. Several settlers have cleared small farms in this area and, of these, only one may be considered as a bona fide settler. The others left when the adjacent/logging operation ceased or when the water-power company bought their land. It has been decided to throw these Crown granted areas into the forest as it is expected that they will revert to the



Looking N. across Lois Lake - logged and burned.
Satisfactorily restocking with hemlock, cedar, fir
12 years old. Compartment 9. 50 year-old second
growth of Compartment 8 in right background.

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Compartment 9, hemlook - cedar - fir, 1918.

Logged and burned 3 to 20 years ago - ground lead and high lead systems used in logging. Site quality varies from medium to good. Former stand runs from 30 to 60 M. B.M. per agre - fir - cedar - hemleck. The topography is steep and broken in parts but generally is quite smooth the steep, rough country adjacent has not been logged. This area is well stocked - some areas being overstocked. A small volume of shingle bolts is to be had. Seed trees are generally few and well soattered but nearby timber has aided in restocking the area. Fore and aft pole roads and chutes are to be found representing the old ground lead logging. A railroad grade along Scanlon Creek is in good condition it was part of the Eagle River and Northern Railroad system, the remaining portion of which runs through Compartment 9. The main road to Powell River runs adjacent to the south boundary.

Compartment 9A, logged or burned, 1922.

A sub-compartment consisting of several sub-areas logged and burned simultaneously with main type of the compartment. Those sub-areas in the south part of the compartment have been repeatedly burned and the soil is very dry, some of it appears to be seriously damaged. An area in Scanlon Creek valley has not been slash-burned but has been clean-out and is not restocking satisfactorily. The soil was shallow and was badly dug-up in logging. However, it is a narrow valley and is encircled with timber so that it may be expected to restock soon. The site quality of the sub-compartment is medium to good. Former stand 40 to 80 M.B.M. per aore - fir - cedar - hemlock.

Compartment 9B, fir - hemlock - oedar, 1887.

A sub-compartment at the north end of the Compartment 9. Burned about 35 years. It is now satisfactorily stocked. The site quality is medium. Former stand ran from 30 to 60 M.B.M. per acre - fir - cedar. Topography steep but not too rough. A medium logging chance. North of Gordon Pasha Lake a fringe of alder along the shore has hindered the reproduction but the conifers are gradually springing up in the shade and will choke out the non-commercial cover in time. A small sub-type of 65 year mixed second growth is included. This area has been cut over for poles and bolts.

Compartment 90, hemlock - cedar - fir, 1855.

A small sub-compartment west of Scanlon Creek which was burned about 75 years ago. Apparently the burn injured the soil and site quality. Old snags indicate that the former stand was average, running 30 to 40 M.B.M. per acre - fir - cedar. The present stand is heavily stocked but the height and volume growth is poor. The soil is shallow and rock outcrop is noticeable. Whereas thinning out some of the 2000 suppressed trees per acre, (under 3" d.b.h.) from the stand would doubtless improve it, the area is somewhat inaccessible and a poor logging chance, and the value of the resultant product would be comparatively small, even under intensive management. The rotation age had best be extended.

Compartment 9D, non-commercial cover.

A sub-compartment of deciduous cover, mostly alder, willow and maple, as mentioned in Compartment 9B.

Compartment 10, mature oedar - fir - hemlook.

The timber is high grade and of good size. topography is fairly smooth especially on the lower slopes of the valley. The timber is in one compact unit and makes an excellent logging chance. It is a good railroad proposition although there is a 10-mile haul to saltwater at Stillwater or a 15-mile haul to Lang Bay. The most economioal way of removing the timber was via the old logging railroad which tapped Compartment 7. However, the grades are still in good condition and may yet be made use of. This area should be logged as a unit but the bulk of the timber is owned by two or three private companies and satisfactory arrangements may not easily be made. Defect is prevalent in the stand but no more so than in the average overmature virgin stands on the coast. A fire in 1925 destroyed a sizeable area west of Freda Creek - but a large volume might be salvaged if logged soon. The inaccessible timber is entirely on Crown land and is poor quality hemlock - silver fir (balsam). Defect is serious over this area so that utilization is doubtful.

A good trapper's trail runs from Horseshoe Valley to the top of the ridge east of Freda Creek - along this ridge to a point west of S.T.L.2008. Another well cut trail funs from Gordon Pasha Lake along Freda Creek to Freda Lake. The last three miles have not been cut out for some years and therefore will not be as good as the rest of the trail.

Compartment 10A, burned 1925.

A sub-compartment west of Freda Creek, burned 5 years ago. The fire left little or no salvageable timber but the soil appears to be undamaged. Reproduction was slow in starting but there is plentiful 1 and 2 year mixed reproduction showing and doubtless will become established satisfactorily in a year on two. The site is good. Former stand ran 60 to 80 M.B.M. per acre - fir - cedar. Very few seed trees remain on the area but there are sufficient nearby to ensure satisfactory restocking. Heavy ground cover and debris in places but not so much as to hinder good restocking. Disease and insects noticeable but as yet not serious.

Compartment 11, Sub.A. fir - cedar - hemlock, 1908.

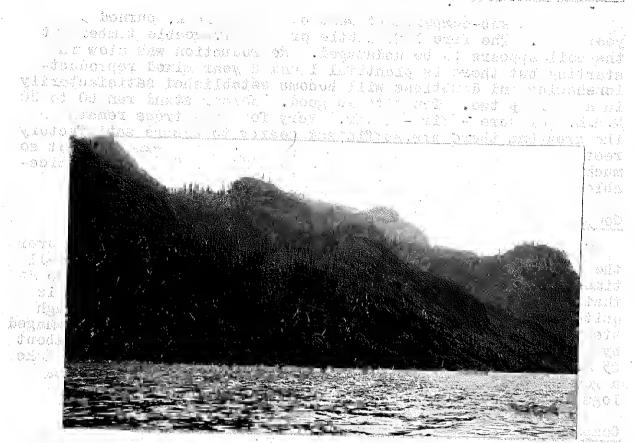
Burned about 22 years ago. Seed trees scattered over the area and in one or two groups sufficiently large for small timber sales. Reproduction is satisfactorily established so that with proper care, these sales may well be made. Area is quite accessible as it faces Powell Lake. Topography, though steep, is not badly broken. Soil has not been seriously damaged by the fire. The site quality is fair. Former stand ran about 25 M.B.M. per acre - the timber was small. The area would make a good logging chance for an A-frame operation, swinging the logs into the lake.

Compartment 11, Sub B, fir - oedar - hemlook, 1899.

Similar to Compartment 11, Sub.A, but separated from it by part of Compartment 12. The area was burned about 30 years ago. There are no seed trees on the area - the few left after the fire have been logged off. The stocking is light, but sufficient. Shingle bolts have been removed from the area. Bolt chutes are numerous throughout the area but are mostly worn out, decayed or torn down. One or two good skidroads are to be found also. The site is of medium to good quality. Topography is fairly smooth. Soil is good and fairly deep. Former stand ran from 40 to 70 M.B.M. per acre - large fir and good cedar stumps are prevalent over the area. The type lies along the lake shore and is an excellent logging chance.

Compartment 12, burned or logged, 1925.

Area burned 30 years ago and again 5 years ago. These burns, together with intermediate burns in 1922 and 1924, have seriously injured the soil over large areas. With the exception of two small sub-areas the compartment is seriously understocked. Seed trees are very scarce and very scattered - not nearly sufficient for proper restocking. Former stand ran 20 to 50 M.B.M. per acre - fir - cedar - hemlock. Present site quality may be considered to be fair. Topography varies from smooth to fairly broken - generally smooth enough for a fair logging chance. Subtypes of satisfactorily stocked reproduction are too small to be



Looking E. on Coat Lake - burned, logged and reburned - patches of 15 year old reproduction and alder - very few seed trees. Compartment 13B.

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logged by themselves. A fair volume of bolts are left on the south-east part of the area. Part logged subsequent to burns. The area is well bolted - two good flumes and skidroads on north part of compartment.

Compartment 13, fir - cedar - hemlock, 1909.

Burned about 25 years ago and part burned about 6 years ago. The compartment consists of several subareas, one of which has been logged about 15 years ago by ground lead. Area well stooked and seed trees are very scarce except in that area west of the south end of Goat Lake where seed trees are plentiful and an area of mature timber is nearby. These seed trees may well be logged together with the mature timber if due care is given the reproduction. Shingle bolting is now being done immediately north of S.T.L.2792P. Several bolt chutes have been constructed here. Site quality over the several areas is medium. Former stand ran 40 to 60 M.B.M. per acre - cedar fir - hemlock, Good oedar and fir on the lower slopes. Topography quite broken in some areas but fairly smooth as a whole - a medium to good logging chance. Accessibility is good as all areas are close to Goat Lake.

Compartment 13A, hemlock - cedar - fir, 1886.

A sub-compartment consisting of several areas burned about 35 years ago and some of which were logged about 15 years ago by ground lead. These areas escaped subsequent burns and are well stocked. Seed trees are few and scattered. A small volume of bolts may be had. Site quality over the several areas averages medium. Former stand ran 50 to 60 M.B.M. per acre - cedar - fir - hemlock. Most areas are quite accessible and constitute a good logging chance.

Compartment 13B, burned and logged, 1914.

Burned and part logged about 15 years ago. Ground lead yarding used. Area probably reburned about 5 years ago. There are few seed trees on the area. Reproduction is very soarce. Soil on areas near the lake is in fair condition, some humus being left on the ground. At higher elevations much mineral soil has been exposed but seed trees are scattered over this area satisfactorily. On the area as a whole good sestocking is not to be expected for some time. The site quality, on the whole, is fair. Former stand ran 30 to 60 M.B.M. per acre - cedar - fir - hemlock. Logging chance varies from medium to good.

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Looking S. on W. side of Goat Island. Fir, hemlock, cedar reproduction 30 years old. Note scattered seed trees and open swamp. Compartment 14.

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A sub-compartment of timber. This area has been subjected to a ground fire but little damage was done. The timber is of good size and grade. It is in one compact area and constitutes a fine logging chance. Outlet via Goat and Powell Lakes to mills at Powell River.

Compartment 14, fir - hemlook - cedar, 1902.

Burned about 30 years ago. Less damaged areas logged since then, especially for bolts by horse-logging and flume. Ground lead with fore and aft roads and chutes were used for getting out logs. Some hand logging was done along the lake shore. In general seed trees are very soarce except on the south end of the island. The main type is made up of 3 areas, each of which is well stocked. The site quality varies from medium to good. Former stand ran 30 to 80 M.B.M. per acre - fir - oedar - hemlock. The topography is very varied, some areas being smooth with an easy slope while others, often adjacent, being steep and rough. On the whole, this island constitutes a good logging chance. There is a good volume of bolts on the area and a bolting operation is in progress at present. This burn was heavy and has damaged the soil quite seriously in some areas. The site quality is fair, over the whole area. Very few seed trees are to be found but good restocking may be expected when the 30 year reproduction, now sparsely scattered over the area, begins to produce seed. Former stand ran about 25 M. B.M. per acre - fir - cedar - hemlock.

Compartment 14, mature fir.

A sub-compartment of timber at the south end of the island in one compact area. The timber is of fair size and grade but is defective due to ground fire which burned most of the area. Beetles and fungus have made entry into the timber. However, it is now being logged. The soil is shallow, especially on the higher slopes, and the fire has exposed considerable rock and mineral soil. Regarded as a poor to fair site. Topography is not badly broken but a few rock slides, boulders and ravines reduce an otherwise good logging chance to a medium one. Logs are towed to mills at Powell River, a distance of about 10 miles.

Compartment 15, fir - hemlock - cedar, 1899.

Burned some 30 years ago and subsequently part logged. Burn had little effect on lower slope but higher slopes with shallow soil suffered severaly in most cases. Site quality ranges from medium to good. The area is well-stocked and seed trees are scattered throughout. The topography is fairly smooth but generally steep. Rock outcrops

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and slides on the upper slopes mar an otherwise good logging chance. Leaf-eaters were found to be active on the young firs in certain areas. Both ohutes and skidroads in good condition are to be found in the compartment.

Compartment 15A, fir - cedar - hemlock, 1923.

A small sub-compartment logged and burned about 6 years ago. The young reproduction, on a good site, is well stocked. There are no seed trees on the area. Former stand 50 M.B.M. per acre - fir - cedar. Good logging chance as topography is smooth.

Compartment 15B, burned and logged, 1899.

Sub-compartment composed of several sub-areas, all burned about 30 years ago. One sub-area in the south end of the compartment was badly damaged by the fire as the soil was shallow. The site quality, over the whole sub-compartment, is fair. The former stand ran from 20 to 50 M.B.M. per acre. There are practically no seed trees. Most of the area has been bolted. The topography is varied in this type. In the north the sub-areas are steep and fairly rough but other areas farther south are fairly smooth. A medium logging chance.

Compartment 15C, mature fir - oedar.

A sub-compartment containing exceptionally good timber. The area is small and adjoins timber tributary to Theodosia River valley.

This area is in a steep sharp valley and is not easily loggable by itself. The western end of this type has been subject to heavy wind-fall but the down timber is still good. The timber is in such a position that it may go out with the railroad logging operation in Theodosia River valley or may be logged separately into Powell Lake.

Compartment 16, cedar - fir - hemlock, 1909.

This type is composed of several sub-areas. It is due to a burn about 30 years ago. As the soil is shallow on this area the burn had a retarding effect on the reproduction, also very few seed trees were left. However, the area is well stocked and the reproduction shows very good growth. The site quality may be regarded as medium to good over the whole area. Former stand ran 20 to 30 M.B.M. per acre - fir - cedar. Most of the area has been bolted and one or two operations are in progress here now. The topography is quite rough and steep - rock bluffs, slides and outcrop are prevalent but type runs close to lake. A medium logging chance. Some hand logging possible alongthe lake shore. Bear Tooth



Looking E.from E.end Geat Island - Note Alpine type, severe burn exposing rock, scattered 20 year old reproduction and satisfactorily restocked cedar, fir, hemlock, 20 yearsold along the shore. Illustrative of Compartment 20, 16B and 16 respectively.

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Looking S. from head of Powell Lake - Note narrow valleys and steep rugged country - Shallow swift flowing streams.

Creek provides a good logging chance - a good skidroad and log-chute are to be found here. There are bolt-ohutes throughout the area but most of these are worn out or torn up.

Compartment 16A, hemlock - cedar - fir, 1900.

A sub-compartment consisting of two sub-areas burned about 35 years ago. Subsequently part logged for bolts. The site quality is good and the area is well stocked. There are very few seed trees to be found. Former stand ran 30 to 50 M.B.M. per acre - cedar - fir - hemlock. Topography varies from smooth and flat to badly broken and steep. About 1/5 of the north sub-area is almost inaccessible - the rest is very smooth. Logging chance medium to good.

Compartment 16B, burned or logged, 1895.

A sub-compartment made up of several sub-areas, all burned about 35 years ago. Subsequently part-logged for bolts. Site quality is medium. Lack of reproduction due to lack of seed trees. Both sides of the north end of Powell Lake have been very badly burned by this fire - only two valley types being left undamaged north of Goat Island. Evidently the soil was shallow in this area as great sections of bare rock are now to be seen covered with large snags which indicate that these areas were formerly productive. All the productive areas left are along the lake shore and provide a good logging chance, although in many places the topography is steep and badly broken.

Compartment 17, Sub.A, mature hemlock - silver fir (balsam).

A logging operation is being conducted in the area at present. Yellow cedar is the most valuable species and there is a good volume of it in the stand - fir and red cedar are being cut to some extent also. The stand is on a high and moderately steep valley. The logs are lowered on large-flanged log cars to the lake over a pole-railroad incline. A fast-flowing creek rushes down a steep, sharp watercourse through the valley. The sharp sides of the creek-bed developeinto canyons in places and these are serious obst-acles to logging. On the whole this is a medium logging chance. Under the system of logging now in use the entire area is accessible. The timber goes to the operator's mill at Powell River, about 9 miles away.

Compartment 17, Sub. B, mature hemlock - silver fir (balsam).

This timber is of good size and grade and is quite heavy, especially in the valley bottom. The majority of the stand is of saw-timber size but, because of species, will

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probably be logged for pulp timber. The topography is fairly broken and quite steep - also there is a sharp drop to the lake. The logging chance is regarded as poor. However, a good volume of yellow cedar is to be had, thus making the area profitable to log. Timber will come out via Olsen valley to the lake and thence, a distance of about 16 miles, to Powell River.

Compartment 17, Sub.C, mature cedar - hemlock.

Timber is large and of good grade. Stand is quite heavy but defect is prevalent especially in cypress, hemlock and silver fir (balsam). Dead and down cedar will provide good bolts and quite a volume is to be had in the north-west corner of the area. A small area to the south of the main body is practically inaccessible but there is a possibility of logging it through a low divide at the south-west corner of the compartment. The valley is steep and there is a sharp drop to the lake and although the topography is fairly smooth, the logging chance is only fair. The logs must be towed about 29 miles to Powell River.

Compartment 17, Sub.D, mature cedar.

Timber is large and of good grade. Stand is heavy especially near the forks of the creek. Cedar, fir and spruce predominate on the lower levels and hemlock, silver fir (balsam) and oedar on the upper slopes. The valley is flat but with steep sides and there is a sharp drop to the lake. The country is fairly smooth although the occasional rock outcrop and ravine are to be seen. On the whole, it is a good logging chance but there is a 30-mile tow for the logs to Powell River. The north fork of the creek is strewn with enormous boulders and the timber is of very poor quality here, making this a truly non-merchantable, inaccessible stand.

Compartment 18, mature cedar - hemlock.

The timber is large and of good grade. The stand is not heavily stocked. The cedar is particularly large and of fine quality but is badly butt-rotted. Also a large part of it grows on steep broken hillsides so that breakage in logging probably will be high. The spruce and silver fir (balsam) in this area are so much alike in the bole that it is very difficult to distinguish between them. Hemlock, spruce and silver fir (balsam) form the valley bottom type while cedar, fir and hemlock form the sidehill type. The topography is steep and broken on the upper slopes and flat and smooth on the valley bottom. At the upper reaches of both Powell River and Daniels River valleys, occasional boulders are found and slides often extend almost to the river from the narrow, steep sidehills. This compartment



Looking W. from Powell Lake about 4 miles North of Goat Island. Bare rock bluffs down to waters edge effect of severe burn. Compartment 20.

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i, mi i salibe incomen a lita (majot ii Headwaters of Eldred River - 13 miles up river from head of Goat Lake. Near N. limit of timber in Compartment 22 - timber in foreground.

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will make a good railroad logging chance as an easy grade can be found for about 12 miles up Powell River valley and about 8 miles up Daniels River valley. Logs must be towed a distance of 35 miles to Powell River. There is good volume of timber on the higher inaccessible slopes. An old and very poor trapper's trail runs from the lake up both valleys.

Compartment 18A, fir - cedar - hemlock, 1909.

A sub-compartment comprising several sub-areas all the result of burns apparently about 20 years old. These areas have all been reported by reconnaissance - no examination was made. Areas observed seemed to be well stocked.

Compartment 19, water.

Comprising Powell and Goat Lakes and some small areas frequently flooded by fluctuations in the elevations of these lakes.

Compartment 20, non-productive.

A large area of alpine, scrub and barren extending from Powell Lake to Hotham Sound.

Compartment 21, Sub. A, barren.

Due to bad burn. Large volume of shingle bolts may be had from this area.

Compartment 21, Sub. B, barren.

Due to bad burn. Some bolt-timber left on the area.

Compartment 22, mature hemlock - cedar.

The timber is of medium size and grade. The cedar and fir on the upper slopes are of good quality and size. The topography is typical of the U-shaped valleys on the coast. Steep sidehills, often quite smooth but with occasional rock outcrop and slides, and flat valley bottoms. The north end of the west-fork valley contains quite a volume of yellow cedar.

This area is a good railroad logging chance. An easy grade can be found as far north as the second main forks a heavier grade would be necessary to get to the third forks. Beyond this it would hardly be economical to build a grade. This means that about 9 to 10 miles of easy grade may be had and possibly 3 miles of heavier grade. The logs will have to be towed a distance of 24 miles to Powell River. Some of the timber of the upper reaches of several tributary creeks is of doubtful accessibility. This timber is generally hemlock silver fir (balsam) with some red and yellow cedar. A trapper's

trail runs from the lake to the first main forks. This trail evidently branches and follows each fork for some distance but here the trail is very poor and hard to follow.

Compartment 23, Sub. A, mature hemlock - silver fir (balsam).

The timber is of medium size and grade but the stand is quite heavy. However, decay is prevalent in the stand, especially butt-rot and centre-rot, some top-rot and conk also noticed. The south end of this area is quite seriously affected and if not logged soon it will become too decadent for merchantability. This valley is narrow, steep but not badly broken on the east side, where the timber is, but the country between the timber and the lake is badly broken and steep. The logging chance is regarded as fair. There are no trails or roads in the area. The logs must be towed a distance of 23 miles to Powell River.

Compartment 23. Sub. B. mature hemlock - silver fir(balsam) - cedar.

Very similar in all respects to Compartment 23 Sub.A. The timber runs from the main valley to a smaller valley to the east where the country is steeper and hard to log.

The sharp drop of 1500 feet from the timber to the lake is somewhat broken but a chute about 3/4 of a mile long would take the logs over the steepest part, from there the timber could easily be skidded to the lake. The logs must then be towed about 20 miles to Powell River. As the defect in the stand is becoming serious, this area should be logged as soon as possible. A fair logging chance.

Compartment 24, water.

Comprising Lois, Gordon Pasha and Khartoum Lakes. There is a water power project in the course of construction in this area. A concrete dam, 200 feet high, is to be built with the intention of raising the water level of all three lakes to an elevation of about 100 feet above the present level of Lois Lake. This will entail the flooding of some 4000 acres of land, both private and Crown, and will make one large lake. When this is accomplished (within the next 10 years, it is expected) the present area of this water compartment will be more than doubled. The merchantable timber on the proposed flooded area is being logged off.

Compartment 25, mature fir - cedar - hemlock.

This compartment being long and narrow covered a wide range of sites. The timber varies from small, subscrub, light stands to exceptionally large, heavy stands. Timber varying from 14 to 107 M.B.M. per acre was cruised in

the more accessible timber close to the lake. The logging chance, as a whole, is fair. The timber may go out via Gordon Pasha and Lois Lakes to the railroad at Lois River until the permanent dam is built, obstructing the railroad. An alternative route through Scanlon Creek valley, where old railroad grades are still in good condition, and over a low divide to St. Vincent Bay. However, this would entail a large distance of adverse grade and probably would be the less economical of the two routes.

Compartment 26, Sub.A, mature cedar - hemlock.

The timber is of large size and excellent quality particularly the fir, cedar and spruce. The other species are of average size and quality. The decay is only the normal amount to be expected in over-mature stands. This area is particularly well situated in regard to safety from fire or The deep narrow valley protects the stand from wind while a former fire has burned bare areas large enough to safely separate this stand from its neighbours. Hemlock, silver fir (balsam) and oedar form the valley-bottom type while cedar, fir and hemlook form the slope type. Cedar reaches its best development on the intermediate slopes. topography is very uniform, steep sidehills and low, flat valley bottoms. An easy railroad grade may be found from the lake to the most northerly of the timber limits. Outlet via Khartoum, Gordon Pasha and Lois Lake, thence by railroad to Stillwater. An alternative route is over a low divide at the head of Khartoum Lake to Hotham Sound. Altegether this area would make a good logging chance.

Compartment 26, Sub. B, mature cedar - hemlock.

A. an old burn (about 75 years ago) partly destroyed the south half of &.T.L.2004. The area is now well stocked with vigorous 75-year second growth, some of which is of merchantable size. A horse-logging operation is being conducted in this area now removing bolts, poles and piling. The topography is much steeper than in Compartment 26, Sub.A. The valley bottem grade is much too steep for a railroad. Could probably best be logged by skyline and swing system or by fore and aft pole roads. Outlet via Gordon Pasha Lake to Still-water. Only a fair logging chance.

Compartment 26, Sub.C, mature cedar - fir.

The timber is similar to that in Compartment 26, Sub.A. The topography is somewhat similar to that in Compartment 26, Sub.B, but even more steep and broken. A fair legging chance.

Compartment 27, mature fir.

Timber generally of fair size and grade but a good

volume of poles and piling may be obtained from timber at the higher elevations. A ground fire has damaged that part of the compartment facing Jervis Inlet. In this area a good volume of shingle bolts may be obtained. The defect in the stand, especially in the burned area, is somewhat greater than average. Butt-rot, conk and cat-face defects are most prominent. The fire-damaged area should be logged soon as it is rapidly losing value. due to this decay. The topography is quite steep over most of the area and somewhat broken by bluffs, slides and small ravines. However, the timber is quite accessible, especially on the southern part of the area near Jervis Inlet. That part of the timber lying east of Lois Lake might best go out via Lois Lake to Stillwater or it may go with the rest of the timber to Jervis Inlet. High-lead, with fore and after pole roads and chutes, seems to be the best method of logging the area although tractors and chutes have been used successfully on similar steep slopes nearby. On the whole it is a medium logging chance. All Crown timber should be taken out together with the nearest alienated timber.

Compartment 28, non-productive.

Sorub, barren and water. Non-productive due to site and elevation. Part of barren area caused by severe fire.

Compartment 29, non-productive.

A scrub compartment due to site and elevation.

Compartment 30, logged or burned, 1924.

Burned and part logged and burned from 2 to 30 years ago. Different sections of the area have been subject to several fires. There have been 5 fires, in different places, over the compartment since 1900. Seed trees are few but well scattered. The reproduction is gradually coming back. The soil is not seriously damaged but some areas, where it is shallow, have been badly dug-up by tractor logging and some mineral soil was exposed. On the whole the site quality is medium. Former stand ran about 40 to 50 M.B.M. per acrefir - cedar - hemlock. Some of the chutes used in the tractor logging operation in this area are still in good condition and may be used in taking out adjacent mature timber. A few good skidroads and fore and aft roads are to be found also. Logging chance is good.

Compartment 30A, hemlock - cedar - fir, 1925.

A sub-compartment composed of several small subareas burned or logged 5 to 20 years ago. Ground-lead, high-lead and tractor logging have been done on the compartment. 20-year reproduction on the eastern part of the compartment shows medium growth. Seedlings, 1 to 5 years old, in the western part of the compartment shows medium growth also. Seed trees are few but well scattered. Former stand ran 40 to 70 M.B.M. per acre - fir - cedar - hemlock. Site quality is medium. The topography, especially in the eastern part of the compartment, is badly broken by small rock bluffs and outcrops. However, the area is very close to Jervis Inlet and is considered to be a good logging chance.

Compartment 30B, hemlock - fir - cedar, 1905.

Burned and part-logged by ground lead 20 years ago. Seed trees are plentiful but the timber is hardly good enough to warrant timber sales in the area. The soil is good and the reproduction shows average growth. Former stand ran 40 to 60 M.B.M. per acre - fir - cedar - hemlock. The site quality is medium. This area was left unburned by frequent fires over adjacent areas.

Compartment 31, fir - cedar - hemlock, 1898.

Ground-lead and horse-logged and part-burned about 30 to 40 years ago. Seed trees sufficiently numerous and well scattered over the area. The area is well stocked. Former stand ran 20 to 50 M.B.M. per acré - fir - cedar - hemlock. Site quality varies from fair to medium. Topography varies from smooth and moderately steep to abrupt and badly broken by outcrop, bluffs and slides. However, the area is very accessible. A few skidroads, pole roads and chutes are to be found but are in poor condition for the most part. The area as a whole is a good logging chance. A good volume of shingle bolts is available.

Compartment 31A, hemlook - cedar - fir, 1920.

A sub-compartment made up of 3 sub-areas. Logged and burned 5 to 20 years ago. Seed trees plentiful and well scattered. Site quality fair. Former stand 20 to 50 M.B.M. per agree - fir - cedar - hemlock. Topography generally flat and smooth but occasionally broken by rock bluffs and outcrops. On the whole the logging chance is good.

Compartment 31B, logged and burned 1924.

A sub-compartment consisting of several sub-areas. Logged and burned about six years ago. Seed trees are satisfactorily scattered over the area but the reproduction is slow to come in. Apparently the soil was somewhat damaged

by fire as it is quite shallow in these areas. Former stand ran 20 to 40 M.B.M. per aore - fir - cedar - hemlock. The site quality is fair. The topography is typical of the compartment. One or two skidroads, in fair condition, are to be found on the areas.

Compartment 31C, mature fir - hemlock.

Timber small but fairly sound. Conk and butt-rot are the most noticeable defects. The topography is steep and broken by occasional bluffs and outcrops. The timber is of doubtful accessibility being somewhat difficult to log and quite a distance from the water. However, a small high lead operation is working in the southern end of the timber and may extend the logging to the higher, and in some cases, better timber. The logs are put in the water at the north end of St. Vincent Bay. The logging chance is considered to be fair.

Compartment 32, hemlock - cedar - fir, 1918.

Logged and burned from 4 to 18 years ago. The main type is made up of several sub-areas. Seed trees are sufficiently numerous and well scattered over the area. The area is well stocked. Former stand ran 40 to 50 M.B.M. per acre - fir - cedar - hemlock. The site quality is medium. Topography generally steep and quite broken by bluffs, out-crop, slides and small ravines. Occasional smooth, flat draws are to be seen. The area is very accessible so that the logging chance may be regarded as good to excellent. The logging methods used were ground lead with fore and aft roads, high-lead, truck hauling and hand-logging. A small high-lead operation is being conducted in Baker Bay. The product is poles at the present time. The poles are hauled to the water by truck. The operator is relogging the area. A few good pole roads and skidroads are to be found on the area.

Compartment 32A, fir - hemlock - oedar, 1897.

A sub-compartment composed of two sub-areas burned from 35 to 40 years ago. Seed trees are few and scattered. The reproduction is light but satisfactory. Former stand ran 30 to 50 M.B.M. per acre - fir - cedar. The site quality is good. Occasional outcrops and bluffs mar an otherwise excellent logging chance.

Compartment 32B, logged and hurned, 1920.

Logged and burned about 10 years ago. Seed trees few and scattered. Reproduction slowly coming in. Soil was shallow over most of this area and evidently was damaged both by logging and by fire. Former stand ran 30 to 40 M.B.M. per acre - fir - cedar. The site quality is medium. Logging chance

is good.

Compartment 32C, mature fir - cedar.

A sub-oompartment comprised of several sub-areas. The timber is light but of good quality and is generally found in pockets. These areas are the least accessible parts of the compartment. Rock bluffs, cliffs and outcrops are prevalent. However, the timber is fairly close to water so that the logging chance is medium. A tractor operation, now suspended, has been working in some of this timber near Granville Bay.

Compartment 33, Sub-A, mature cedar - fir.

The timber is of average size and grade. Some bolting has been done in this area and the best of the cedar was removed. The defect is about average - butt-rot in fir and cedar and beetles noticeably affecting hemlock. The topography is steep and broken by bluffs, slides, bowlders and small, sharp ravines. The valley bottom is steep and broken also and a good grade is very difficult to find. High breakage in logging may be expected. However, the timber is close to the water making the logging chance a medium one. The north tip of this stand is on a high rocky bench and is very difficult to reach. This timber is considered to be inaccessible.

Compartment 33, Sub. B, mature oedar - fir.

The timber is small and sound but of low grade. Defect is light - a little conk in fir and hemlook, butt-rot in cedar and beetles in hemlock. The topography is steep and broken but a good grade may be found along the bottom of this narrow valley. Parts of the area near both lakes have been logged for shingle bolts. A few large cedars and silver fir (balsams) are to be found scattered over the south end of the stand. There is a thick tangle of noncommercial cover and undergrowth along the creek. A few poor skidroads lead from the south end of the area to Lena Lake. A good pole road and skidroad run from the lake to the saltwater. The logging chance is a medium one. Outlet via Lena Lake to Hotham Sound, although a small portion at the north of the stand may go north via the small lake to There is a small volume of inaccess-Prince of Wales Reach. ible timber on high narrow benches east of Lena Lake.

Compartment 33, Sub.C, mature inaccessible cedar - hemlook.

The timber is large and of good grade but more than normally defective. Conk and butt-rot most serious defects while beetles are noticeable in hemlock. The topography is steep and broken. The valley bottom is very narrow and steep.

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So steep and difficult to get/as to be a very poor logging chance in spite of its proximity to the water. An old prospector's trail and cabin were found near a short prospect tunnel. This project has not been touched for some time.

Compartment 34, cedar - hemlock-fir 1925.

Logged and part burned 3 to 5 years ago. One small area was logged and burned 14 years ago. A high lead railroad operation logged the greater portion of the compartment but a small tractor operation and some handloggers were also active on the area. The soil is generally shallow but deep pockets are to be found throughout the area. The burn and logging has exposed considerable rock and mineral soil. Topography is moderately steep, as a rule, and broken by bluffs and outcrop. There are sufficient seed trees scattered over the area. Former stand ran 20 to 40 M.B.M. per acre - fir - cedar - hemelock. Site quality is fair. A good railroad grade runs from Freil Lake to Goliath Bay - the last portion of which is an incline. An old bolt flume leads from the lake to Hotham Sound. A good tractor road leads north from Goliath Bay for about a mile.

Compartment 34A, logged and burned, 1922.

A sub-compartment composed of several spa-areas logged and burned from 3 to 8 years ago. Shallow soil badly damaged by logging and fire. There are no seed trees on the area. Former stand ran 20 to 50 M.B.M. per acre - fir - cedar - hemlock. General site quality poor. Some areas formerly of good site, now quite poor. The logging roads mentioned in Compartment 34 tap these areas. An old trail runs from Goliath Bay to Freil Lake but is now damaged by heavy windfall.

Compartment 34B, hemlock - cedar - fir, 1872.

A sub-compartment burned about 60 years ago. There is also a small area burned about 40 years ago. The reproduction shows good growth but poor form. The soil is generally quite shallow. Site quality fair. Topography broken by outcrop and slides. Very difficult to get at as a steep, narrow valley leads from Freil Lake to a small lake in north-west corner of compartment. Parts of sub-compartment farther south and close to Freil Lake are much more accessible but the site is poorer. A poor logging chance by itself. A good volume of bolts are to be had around the small lake mentioned above. Former stand ran 20 to 40 M.B.M. per acre - fir - cedar - hemlock.

Compartment 340, mature cedar - fir.

A sub-compartment composed of several small subareas. Timber of fair size and grade but part of it was
badly burned 3 to 5 years ago. The fire-damaged portion,
which covers most of the area, is rapidly deteriorating
from decay. Butt-rot and conk are the most prevalent forms
of decay. The area should be logged immediately. The top0graphy is moderately steep but not badly broken. As the
largest areas are close to Goliath Bay, the logging chance
is considered to be good. However, one small area near
Freil Lake would be harder to get out. Plentiful reproduction coming in under burned timber.

Compartment 35, mature inaccessible cedar - hemlock.

Timber is of good size and grade. Defect about normal. Butt-rot, centre-rot, conk and beetles (especially in hemlock and silver fir (balsam)) were the noticeable forms of damage. Topography generally steep and broken, especially north of Freil Lake. South of the lake the country is much flatter but broken by considerable outcrop. In this area the timber is poor. All this timber should have been taken out by recent logging operation at Freil Lake but the timber was regarded as non-merchantable. This timber by itself is quite inaccessible. The logging chance is poor. Outlet via Freil Lake to Goliath Bay.

Compartment 36, mature hemlock - fir.

Timber is of average size and grade. Defect also average. Conk, butt-rot, pitch-seam and windshake are the most serious defects. That part of the area close to the lake is badly burned but shingle-bolt cedar and some good fir is left. There is a heavy understory of 30-year hemlock - cedar - fir reproduction and patches of 5-year reproduction. The topography is steep and broken, bluffs, slides and cut-crop are prevalent. The logging chance is poor. Timber goes out via Haslam Lake to Myrtle Point or Westview.

Compartment 37, non-productive.

A non-productive compartment of scrub and water extending between Compartments 4, Sub-A and 4, Sub-B.

Compartment 38, logged and burned, 1929.

Logged from 1 to 5 years ago by high-lead methods. Burned this year. Fire consumed slash but little damage was done to soil. Site quality fair. Former stand ran 20to 30 M.B.M. per acre - yellow cedar - hemlock. This area was

logged primarily for yellow cedar so that only the best of the other species were removed, leaving plentiful seed trees. When the reproduction has become established timber sales might be made on this area provided contract conditions protect the young stands - also provided that the present timber licence covering the area has reverted. The topography is fairly smooth and the area close to Powell Lake making this a good logging chance. The logging operation working in Compartment 17, Sub.A takes its timber out to the lake through this compartment over a pole train road.

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-	2640	570 980						6040		1540 460			10	280	570 7870 3100	
		7010				<i>.</i>		880 2490	week to provide the providing the second	2910	2840		30	560	880 360 13350 2490	
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	4030	500					A CONTRACT OF THE CONTRACT OF	1520	e en en en en en en en en en en en en en		200				200 4030 500 1520 2700	
140 550	1 / 5		on the state of th			·	THE PARTY OF THE P	-	TO THE RESERVED TO THE RESERVE				250	10 70	1600 1300 102 0 11560	Mature (1) includes 50 ac. N.C.C.
The state of the s	970					1	-		S Paris and Communication of the Communication of t			·· ·		The state of the s	970	Total productive area acres. Total non-productive acres.

	COMPARTMENT.						CAPABLE OF	LAUDUCIN	G 11MBCK.			11			NC	DN-PRODU
30-9429	Locality.	No.	Mature (1).	Mature (2).	1 to 20 Yrs.	21 to 40 Yrs.	41 to 60 Yrs.	Immature. 61 to 80 Yrs.	81 to 100 Yrs.	Over 100 Yrs.	Selection.	Logged or Burned.	Non- commercial Cover.	Barren.	Scrub Sites.	Grass an Meadow
	Powell Lake Powell and Goat Lake Dodd Lake	19 9s 20 21SubA 21 " B												94,290 1,100 860	71,410	
	n n	22 23SubA 23 " B	520	,						,				,		
	Gordon Pasha Lakes Scanlon Creek Khartoum Lake	24 25 26SubA 26 " B	2,660 3,420 1,660 580	960											490	
	Jervis Inlet W.of Hotham Sound S.of Gordon Pasha L Jervis Inlet	26 ‼ C 27 28	7,380				·					1,470	-	1,400	1,410 3,590 3,160 220	
ì	THE THE TENT OF TH	30A 30B 31 31A			1,090 840	470 1,480				-		280		110	1,000,	:
	u u u Hotham Sound u u	31B 31C 32 32A 32B 32C	150		970	240						.200 √370		430	210	
	й й ў	33SubA 33 " B 33 !! C	370 180 530	20 70 150	·			<i>.</i> ' .								
	Freil Lake u u u u u	34 34A 34B 34C	190		1,820		450	:				510			1,370	
٠	Haslam Lake " " Thippewa Bay	34A 34B 34C 35 36 37 38	1,180	840								440			30 3,590	
	Grand Total	The Court of the C	79,030	4,030	2 5, 39 0	22,120	8,150	200				42,260	3,390	110,450	95,040	
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	Accounting with a will a world			-		-										
		15				-	-	-								

POWELL.

			CAPABLE OF	PRODUCIN	G TIMBER.						NC	N-PRODUCT	IVE.	Vanishing of the) I	
ž).	- h	01. 40.17	47.1- (0.17	Immature	PT 4- 100 TT			Logged or Burned,	Non- commercial	Barren.	Scrub Sites.	Grass and Meadow.	Swamp.	Water,	TOTAL.	REMARKS.
	1 to 20 Yrs.	2I to 40 Yrs.	4I to 60 Yrs.	61 to 80 Yrs.	8I to 100 Yrs,	Over 100 Yrs.	Selection.	·	Cover.	94,290 1,100 860	71,410	Meadow.	50	28,650 490	28,650 ,165,190 1,100 860 11,170 520 940	ii ii ii ii ii ii ii ii ii ii ii ii ii
60											490		20	3,830 70	3,830 4,200 3,420 1,660	Water Compartment.
	1,090							1,470	· · · -	1,400	1,410 3,590 3,160 220			60 30	5,020 3,160 1,690 1,090	Mature (1) includes 60 ac. log. burn. Non-productive Compartment. """"""""""""""""""""""""""""""""""""
	840	470 1.480			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			280		110	1,000		. 20		2,610 840 280	
20	970	240						. 370		430	210	•		· 40	1,650 240 370 370 200	
20 70 50	1,820		450	:				510			1,370		40	610	600 150 3,840 510 450	
4 0								440			30 3,590			10	190 870 1,180 3,600 440	
30	25,390	22,120	8,150	200				42,260		110,450	95,040		1,570	4.3 , 0.30	434,660	
			-						Company of the Compan					and the second s		Total productive area 184,570 acres. Total non-productive 250,090 acres.

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	Compartment				ACR	ES O	F				mom + r			•				•			:				-
	Section, ON NO.	able	able	9	ъ.	ar.	ri i	,	, e	Ti	TOTAL ACRES.	-		rotal V	olume -	- M.B.W	Ι.				Su	mmary o	f Salva	ageable	e Shin
	No.	Mer- chanta (1).	Mer- chantable (2).	Im- matur	Logged or Burned	Non-co mercial	Barre	Scrub	Grass	Wate		F.	.C.	н.	В.	Cy.	P.	S.		To	tal		Comp. No.		Tota
<u>.</u>	-	-					SUMM	ARY	OF MA	TURE	ACCESSI	BLE TIN	BER.											,	
	2 4 Sub A	6540 5080 1640)				40 240	80	7	01040 80 50	5400	.147889 22653 6788	28543 37398 28825	2517 13009 _16311	4368 5492	13947 2748	617 3118 250			1,	79,5 76 4,493 50,414		5 7 8		
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	23 Sub A 23 B	1064 1106 1106 52 94	550 1	3 ::	1	50			2.E	O 70	11170 520 940	30730 48170 250 1100	30730 138710 137910 4050 9250 37947	7949 14493	42650 88065	7965 280 120	200	1220 19640		33	16,300 11,420 27,040 22,340 13,730 22,239		15 16 31 34		
	26 Sub A 26 B 26 B 26 C	266 3420 1660 580 7320	9.6()))		60			90 410		6070	4200 3420 1660 580 8850	50808 12179 10163 7326 173314	83027 30125 16650 41436	2674 30337 16828 3729 45862	23550 9041 407	1529 4452 770	287	569 808		. 74	2,239 49,896 70,609 28,882 57,961 5,650	Gr.	and To	tal	
***	x 33 Sub A x 33 " B 36 · 130 14B 150	180 530 118 36 76 20) 20) 70								200 600 1180 360 760 200 170 350	1962 5038	2904 10025 958	784 3 514 7 319 1080	53 98	392	132 57 30	58			19,154 16,008 10,800) 7,725 14,786	Mature	Ti mbe	e in Ir	matur
	310 320 340	17(35) 19(8				-		-		170 350 190	3959 4739 1188	637 2037 1234	982						-	6,763) 7,758) 2,422)				·
	Grand Total:	78,680	(304	d) 24	ф <u>6</u> 0	50	470 2	390	480	1650	88,060	730,769	920,225	675,586	287,202	79,036	8,857	22,567		2,7	24,242	Acreage	of inacc	ľ	t
	Fg						SUMW	ARY	OF M.	UURE	INACCES	SIBLE ?	IMBER.			4		·						Sub-type	Mark
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	Provincial Forest.		Date, 19, 29-30	Compartment No
POWELL.	1 TOVINCIAL TOLEST.			TOTALS.
TOTAL ACRES.	Total Volume - M.B.M.		mary of Salvageable Shingle Bolts in Immature	Jompartments.
MMARY OF MATURE ACCESSIBLE TIMBE	C. H. B. Cy. P.	S. Poltal	100.	
980 701040 8670 147889 2 80 5400 22653 3	8543 2517 617 67398 13009 4368 13947 3118 88825 16311 5492 2748 250	94,493 60,414	5 7 8 2,600 94,380 200	
) 310 90 210 18770 16573723 200 2700 10000 1 10 1600 1300 2	32571 159560 55434 21449 1785 10000 12500 12500 7500 430 57543 17215 6615 22720 8060 1040 5340		9 12 13 14 15 10,800	
250 70 11560 3073013 50 60 11170 4817013 520 250 940 1100	37910 144930 88065 7965 4050 12710 5050 280 9250 20970 12290 120	19640 427,040 22,340 43,730	16 12,085 400 400 34 10,400 Grand Total 165,055	
3420 12179 8 1660 10163 3 580 7326 1 1410 60 8850 173314 4	33027 30337 23550 30125 16828 9041 4452 16650 3729 407 770 41436 45862 405 4563 2381	803 149,896 70,609 28,882		
200 1962 600 5038 1	2904 784 10025 3514 53 392 132 958 7319 98 1366 57 4320 1080 1110 489 30	19,154 16,008 10,800) 7,725	Mature Timber in Immature Compartments.	
200 7531 170 3959 350 4739 190 1188	6678 489 30 637 2167 2037 982 1234	6,763) 7,758) 2,422)		
0 3390 480 1650 88,060 730,7699	20,225 675,586287,202 79,036 8,85	7 22,567 2,724,242	Acreage of inaccessible timber in accessible compartments in br Sub-types marked (0) are included with mature (1)	acreage in general summary for yield
UMMARY OF MATURE INACCESSIBLE TILL 1300 425 140 550 1400	MBER. 2695 22790 28664 4511 140 540 580 140 3720 2320 1860 11494 23042 3492 2802 261 71 1325 464 7 52 1 4305 1641 9795 6215 3530 185 14	0,554		636 813 590E1 577:28
4060 15,359	33,735 57,083 38,133 7,690 15	152,157		

F,B,341=2M-329-5479	IDL OI		POWETH				FY	ovincia	1 Fore	est.					Date, 19 29-30
Compartment		ACRES OI	F	-	TOTAL			-		*					
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No. & Sec	Mer- chantab (2).	Logged or Burned. Non-con mercial.	Barren Scrub,	Swamp. Wafer.		B	C	H	В	су	P	S	Tot	al	Summary of A Compartment No.
				Summary	of Mat	ure Acc	essibl	e Alier	ated 1	imber.					
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Compartment No.... Provincial Forest. Date, 19 29-30 Sheet No. 45 POWELL. By Compartments. TOTAL TOTALS. ACRES. Total Volume - M.B.M. Summary of Alienated Salvageable Shingle Bolts in Compartment Total Cords Immature Compartments. Total \mathbf{B} Summary of Mature Accessible Alienated Timber. 114608 22771 88 260 721 1092 2088 173 426 22,000 4680 561 140,028 1,097 2,789 514,568 39 9 70 116 401 421 140 50 118394 43335 7700 7700 5145 2550 18000 14800 146306190996 1370 274 13893 12900 6155 6155 810 20505 2500 81880 32,330 29,990 1550 580 4620 -98**0** 123,500 268,835 6720 200 2800 45832104000 70 1050 69308 3300 49695 6300 5,800 56,872 132,176 70 784 1310 140 17053 24482 9820 72612 7788 23110 11095 3458 1330 27335 21670 13008 6986 739 3000 54,229 3337 1270 6126 13923 112833 29101 1300 400 340 334 24,152 3119 31220 644 821 490 175,431 1122 4870 300 566 2,000 120 4,080 130 2096 1418 6,140 3215 1127 1613 17 170 126 42 1,574,017 475041597,648 312304152112 25836 7,733 3343 40450 Summary of Mature Inaccessible Alienated Timber. 51.0 840 3,380 200 1350 680

		IMMA7	[UR]	ET	IME	BER				PC	WELL					P	rovir	ncial	Fo	rest.			Date, 1	9.29	9-30	Summ			Imma		Compa	ırtmer 	1 t
	Compartme Section,		DUCTI	VE (Ac	res).		N	ON-P	RODU (Acres).	JCTIV	/E	TOTAL											DESC	CRIP	TION	l (per	Acre).	•	- Add Wellson -				
	-Leter- -Strip-No.	IMMATUI		Mature Merchant- able.	Logged or Burned.	Non- Com- mer- cial.	Barren.	Scrub Sites.	Grass and Mead-	vamp.	Water,	ACRES.	STRIP.				D.B.H.	1			TOTA	L HEIG	HT.			ТОТ	TAL AC	GE.				NUMBE	
11.0		Main Type.	Sub- types.	abie.	Darned.	cial.			ow.	ις	A		Chainage.	Acres,	F	C	H	P		F'	C	H			E.	C	H			F	C	I P	\$
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APPENDIX 11.

LAND CLASSIFICATION REPORT of POWELL PROVINCIAL FOREST.

The Project
Topography
Climate
Irrigation possibilities
Forest cover
Clearing costs
Soil
Possibilities for orops.

The Project:

The purpose of this survey was to classify lands in order that the boundary of the Powell Provincial Forest might be permanently located. The areas examined include lots along the shores and in valleys adjacent to Powell Lake, as well as a large area extending along the shores of Malaspina Strait and Jervis Inlet from Powell River to Hotham Sound. This latter area varies in width from a few chains to six miles with a somewhat greater extension northward into the Horseshoe Valley.

For summary of area reported on by individual lots see summary sheets at end of report.

LAND CLASSIFICATION.

Summary Land Classification - POWELL FOREST - 1929-1930.

Agricultural Soil (1) 3,884 acres (2) 5,560 "

Total " " 9,444 acres Forest Soil..... 31,491 "

Total area examined 40,935 acres

Recommended for Agriculture.

Alienated Crown Land. Soil (1) - 561 acres Soil (1) - 1,108 acres " (2) - 1,990 " Forest Soil.... 1,111 " Forest Soil 1,523 " Total...... 2,106 " Total..... 4,621 "

Recommended for Forest.

Alienated	Crown Land.
Soil (1) - 1,207 acres 1,207 acres 581 " Forest soil 8,847 "	Soil (1) - 1,008 acres " (2) - 2,555 " Forest soil 20,010 "
Total 10,635 "	Total 23,573 "

Statutory Classification of Land.

1st Class - 1,393 acres 2nd " - 39,542 " Total..... 40,935 acres

> "K. F. Moffatt" Examiner.

Topography:

The lots that were examined along the shores of Powell Lake usually consisted of a small strip of gently sloping land along the shore or narrow benches above the lake level. A few chains from the shore line the mountains rise precipitously to very high altitudes.

Olsen Valley presents a narrow steeply walled compartment. The floor of the valley is nowhere more than 20 chains wide and immediately rises into high steeply sloping hills on either side.

The main tract along Malaspina Strait presents a gently rolling aspect towards the south and south-west. The terrain rises from sea level to 2000 feet along the north boundary of Lot 913. Scattered over the whole area are small rocky knolls rising about 300 feet above the surrounding country as for instance those hills south and east of Hammil Lake and those smaller knolls immediately east of Cranberry and south of Haslam Lakes.

The main valley of the Horseshoe River, extending north from Lois Lake to Bodd Lake, is of fair width with a flat bottom. The hills rise very steeply on every side and offer a very definite boundary to the agriculturally possible land.

Small parcels of agriculturally possible land are found in pockets along the narrow abrupt shore line of Jervis Inlet between Stillwater and Hotham Sound.

Climate.

(a) Rainfall. The average rainfall for Powell River on a monthly basis can be seen from Table 1.

This shows an average annual rainfall for the growing season (May to September) of 8.33 inches. Over the same period Armstrong gets 6.91 inches and Vernon 6.58 inches.

(b) Temperature: The average temperature for Powell River on a monthly basis can be seen from Table 2.

The average relative humidity taken as from Vancouver can be seen from Table 3.

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Fig. 1 - Frederical Control

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Table 1.	· .	······································	·	· A	verage	Rainfal	1.				····································			
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Table 2.				A	verage	Temper	ature.			,				
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Table 3.	Average Relative Humidity.												•	
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	89	86 m	79	74	75	74	74	78	83	89	91	90	81	24

Irrigation Possibilities.

Under usual conditions it should not be necessary to irrigate over the section under discussion if one compares its rainfall of 8.33 inches for the growing season to Armstrong with 6.91 inches for a like period. They do not find it necessary to irrigate at Armstrong but irrigation is quite a problem at Vernon where the average rainfall for the growing season is around 6.58 inches.

It is generally believed that, under the present methods of tillage, irrigation is necessary, not because of the lack of moisture, but because of the porosity of the soil.

The farmers in the vicinity of Long Creek and Kelly Creek claim that they could increase their acreage and yields if irrigation water were available.

It is generally presumed that irrigation is necessary for the complete and satisfactory development of tree fruits of which there is quite a large amount in this vicinity.

The Powell River Pulp and Paper Company established a dam at the outlet of Duck Lake to raise the level of Duck and Haslam Lakes for domestic purposes: irrigation water could be supplied to the district with a very small capital expenditure. Whether or not this will be effected is highly presumptive.

Horseshoe Valley is generally considered to get more moisture than does the surrounding country and it would seem that no irrigation is necessary on this area.

Forest Cover.

Timber. Any portion of the tract under discussion, which, without close scrutiny, might appear to be agricultural land carries no timber new. All areas which are closely accessible have been logged and the slash very effectively disposed of.

The Horseshoe Valley is well covered by young fir, hemlock, cedar of about 75 years which has grown to piling size and is a fine stand.

Reproduction.

Most of the area has been so recently fired or was burned so effectively when fired that, with the exception of small scattered patches, there is very little reproduction coming in. Willow is, for the most part, forming the ground cover where the area has been burned for some time.

Swamp Lands.

There is a certain amount of scrub timber scattered throughout the area in swamps and has seed trees in small clumps. Most of the swamps also are covered by a heavy growth of alder and willow.

Clearing Costs.

Clearing costs always vary according to the methods used in assembling the debris for burning. Some areas have large stumps averaging 6' on the butt with very few per acre while other acreages have larger numbers of smaller stumps. A small gas donkey clearing a patch of the former land with the efficacious use of powder, was doing it for about \$45.00 an acre. Some acreages would cost decidedly more than this while other areas might be cleared for somewhat less.

Soil.

origin. The soils of this area are, for the most part, derived from the glaciation of agneous rocks. These soils can be considered to be young soils in the sense of weathering and layering of salts. The physical characteristics of these soils have been changed as the result of forest fires which have repeatedly swept over the country during the past 15 years. It would seem that the fires have driven off the water of crystallization, thus destroying the capacity of the soil for capillary moisture and making it extremely porous.

Types.

Sandy Loam. Although sandy loam is not usually considered to be of the forest type of soil, it holds good prospects of cropping abundantly when efficiently managed. The sandy loam of this vicinity has been rather badly calcinated and would need to be built up considerably in humus before satisfactory crops can be hoped for.

Peat and Muck. Scattered promiscuously over the face of the lower benches are small swamps. Some of these swamps are covered by mosses, species of Kalmia and Labrador Tea, which do not afford a stable surface and would be of no value when cleared. These areas tend to have a high acid reaction.

On the other hand some of these swamp areas have become stabilized by the introduction of alder and willow in the later stages of deposition. These soils are more mellow and favourable to crop production. When cleared and limed these areas are usually very useful in the growth of certain crops.

cultivatable Stony Soils. There are quite large areas of what might be termed very stony sandy loam covering the departments under discussion. This soil has been very badly burned with the consequent depletion of the humus content making the ground appear stonier than it actually would be were it in good tilth.

These soils have some promise of becoming productive under an efficient system of management.

Possibilities for crops.

Soattered over the district around Powell River are quite a number of farms supplying produce for consumption in the town. There are a number of farms supplying milk and cream to Powell River and its suburbs and with the rapid growth of the town there will be opportunities for more people in the business.

Goat breeding is progressing favourably and a number of small herds have been established to supply milk to the district. Again this industry could be increased with the growth in population.

Crops such as Fall wheat, spring wheat, oats and rye are grown but just for home consumption. Hay and clover produce excellent crops over most of the area and potatoes give high yields, under satisfactory conditions.

There are a few apple orchards in the area which cannot be said to be in the best of condition. Soil conditions seem to work against good orchard practice. Small fruits do well, however, and excellent crops from small acreages are prevalent.

There is no doubt the poultry raising in this district could be made into a profitable venture.

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		S S S S S S S S S S S S S S S S S S S		35		130	. 4		80 80 80 76		165 80 80 80 80		, *
,		:		20 13 25	20	60.1 67.1 39.9	20	25	64.9 141.4	3 14	80.1 77.1 70.9 84.9 166.4		
770.4	76	109	105.5	918	356	7787.1	597.9	992	13083.3	636	25125.4		Total Recommended for AgricultureAcres; for ForestAcres.

							SOIL	OLASS	IFICATI	ON.				and the state of t	Statut				
Section or Lot	k No.	Total Acres.		RECOMM	ENDED FO	R AGRICUL	TURE.			RECO	MMENDED	FOR FORE	ST.		Classific of	ļ		hantable mber.	
Number.	Block	Acres.		ALIENATED	•	<u> </u>	CROWN LAN	D.		ALIENATED.			CROWN LAN	D.	LAN	D.			
 			1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	First.	Second.	Acres.	M.B.M.	44
Carried :	3	133	661.2	305	770.4	76	109	105.5	918	356	7787.1	597.9	992 25	13083.3 108	636	25125.4 133			de constant de con
4727 4729 4808		120 154 79.3				75	30	15	region and the second			20	20	154 39.3	. 20	154			
4809 4810 4811 4812 4813		107 85.6 85.6 80 80							5		102		5	80.6 85.6 80 73		107 85.6 85.6 80			
4822 4823 4824 4829		74.7 185 66 98.9							5	10	93.9		10 7	175 59		74.7 185 66 93.9		ta a 1994 to 1994 to 1994 to 1994 to 1994	
4830 4831		96. 8 135		7,	-			-	5		120	1	15.8	81		96.8			
5094 5101 5102 5103		1290 40 40 40	20	•		100 20	100 40 20				130	And the second s	160	930	100	1190 40 40			
5103 5104		40				10	20 30			1					2.	38 40			
5109 5110 5111		40 40 40	5 20	15 20		5 10	15 30									40 40			And the second s
5112		40		The sales of the second second second second second second second second second second second second second se		30	10	!					4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5	40 35			
5115 51 16		40 40					40						4 4			40 40			
5117 5118 5119		40 40 40 40	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	,	-		40 40 25 40	15					17 The state of th			40 40 40 40			
5120 5125 5126		40 40 40					40 35 35	5 5						-		40 40	1		
5127 5128		40 40 40					40							1 and 1 and		40 40 40			
5129 5130 5132 5133		40 48.3 60.2 51.3	A	25 10 10	23.3 50.2		40 25	15		1, mm m m m m m m m m m m m m m m m m m	ATT A TRANSPORT TO LANGUAGE TO	ستريق و موجد	The second secon	7;		40 40 48.3 60.2	· · · · · · · · · · · · · · · · · · ·		The state of the s
5134 5135 5136 5137 5138		51.5 56.1 60.4 63.2 65.3 66.4			41.3 56.1 60.4 63.2	-	 	65.3				•	The state of the s	or the second se		51.3 56.1 60.4 63.2 65.3	,		200 m p p p p p p p p p p p p p p p p p p
5139 5146 5147 5148 5161		92.7 92.7 92.7 92.7		10	56.4		 					5	20 20 5	72.7 72.7 92.7 82.7		66.4 92.7 92.7 92.7 92.7			The state of the s

30367.0

706.2

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1121.3

326

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933

781 29586.0

TOTAL RECOMMENI

629.9 1279.8 15362.3

8177.7

						<u>т</u> г	ROVIN	CIAL F	OREST				2	DATE 193.0	SHEET NO58
		SOIL	CLASS	FICATI	ON.					Statuto Classifica	ry tion	Merchantable		•	
DED FOR	AGRICUL	TURE.			RECO	DMMENDED	FOR FORE	ST.		of LANI		Timber.		REMARKS.	
<u> </u>		CROWN LAND	·		Alienated			Crown Land).	LANI	,		ACTIVITY ACT		•
Forest.	1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	First.	Second.	Acres. M.B.M.	-	1	
770.4	76	109	105.5	918	356	7787.1	597.9	992 25	13083.3 108	636	25125.4 133				
The state of the s	75	30	15				90	20	154 39.3	20	100 154				
				5		102	20	5	80.6	, , , , , , , , , , , , , , , , , , , ,	107 85.6				
							and the same of th		85.6 80 73	2 2	85.6 80 78				
E III					10	64.7		10	175 59	to design the second se	74.7 185 66				
				5		93.9		15.8	81	5	93.9 96.8				
	100	100 40	 	5	m Art. Lat. April . April . Art.	130		160	930	100	132 1190 40				
	20	20 20 30	i i					; ;			40 38 40				·····
	5 10	15	F		de communicación de la mandal d	-					40 40 40				
	<u> </u>	30 10 40	And Administration of the Control of							5	35 40 40				Providence 1 a contrat and con
		40 40 25 40	15		marining de la companya de la compan					70000000 4	40 40 40			•	
		40 35	5 5	,							40 40 40				
		35 40 40	<u> </u>			-					40 40 40 40				
23.3 50.2		40 25	15		The state of the s			! 		The state of the s	40 48.3 60.2 51.3				
23.3 50.2 41.3 56.1 60.4 63.2			65.3			-	,				56.1 60.4 63.2 65.3		1,4	•	
56.4	. ,			1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			5	20 20 5	72.7 72.7 92.7 82.7		66.4 92.7 92.7 92.7 92.7 92.7				
121.3	326	844	225.8	933	366	8700 0	629 0	7970 0	92.7 15362.3	781	92.7 29586.0		Total Recommended for Agriculture	Acres; for Fores	TAcres.

LA	ND	CLASS	olf ICA	41101	1 OF					POWELL	F	PROVIN	ICIAL F	FOREST				
						7.00	SOIL	CLASS	[FICATI	ON.					Statu Classifi		Mercbantable	
Section or	k No.	Total		RECOMM	ENDED FO	R AGRICUI	LTURE.			RECO	MMENDED	FOR FORE	ST.		o: LAI	£	Timber.	
Lot Number.	Block	Acres.		ALIENATED.		<u> </u>	CROWN LAN	D,		ALIENATED	•		Crown Lan	D.	LAI			
			1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	First.	Second.	Acres. M.B.M.	
Carried	fw'd	30367.0	706.2	395	1121.3	326	844	225.8	933	366	8177.7	629.9	1279.8	15362.3	781	29586.0		7111
5163	-	92.7	-		and the state of t		. 3 5	5 -				Value (v.) A Proposition		92.7		92.7 40		Dele
5164 5171		40 39.6			***************************************	i 	บอ	39.6								39.€	5	-
5172		40		•	-		<u>35</u>	5						· · · · · ·		40		- 11
5173		40 40				25 5	1 5	35	j	1			! !	1	10	30 40		-
5174 5175		40						40	1	- 33			1			40		
5176		40			}	10	10	20	£		İ					40		
5177		40		1	!		30	39.6				Î			*	40 39.6		π
5 17 8 5 1 82		39.6 40		1		5	20	15		, ,			İ			40	1	
5183		40	65 11 12 13	1		-		40		ĺ						40		
5184		40			j			40 40								40 40		
5186 5187		40 40		ţ		25	10	5		ξ					15	25		
5200		32.1	.	1	32.1											32.1		
5226		46.7	1	A Auditorial			•	•					35 40	11.7 6.7		46.7 46.7		
5227 5228		46.7 46.7		1		•	. •			 			28	18.7		46.7		
5229		46	<u> </u>	1									10	36		46		
5230		46						:	5				30	16		46		
5231		46 45				5	15	25	1				25	21		46 45		
5236 5237		45		}		10	15	20	<u>,</u>						5	40		
5242		46 46	li J	1] 4				7.0	46		46		1
5243		46		•		15	. 30	1.7	i i				10	36		46 46•	7	
5253 5254		46.7 46.7	\$100 i.i.	! !		To	. 50	. TOI	1 . !				35	11.7		46.	7	
5255 5256		46.7		<u> </u>			\$ 1.0 mm	·		**************************************		5	5	41.7 35		46.' 40		4
5256	1	40 40	25	10	5		•	:					9	99	5	35		
5257 5258	1	40	ದಿಟ	10	J	25	10 30	. 5 .				ļ				40		
5259		40 40 50				10	30		<u></u>			25	25		25	38 45		1
5263		50 51.7	1			1			Ÿ	1		10	25	16.7		51.	7	
526 4 5283		52.1		!			!		4			5	20	27.1	3	49.	1	
5284		40		!								15	20	5	10	30	,	
5285		40 40	A STATE OF THE STA	l'			:	•		-	\$ 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		15	25 40		40 40	-	
5286 5287		40	<u> </u>	1					4					40		40		
5288		40		1				: •				<u> </u>		40 56 8		40		The state of the s
5289		64.8 38.9	11				;					8	20	56.8 18.9		64. 38.9	5	
5290 5291		38.9 40	1							1			20	20		40		
5292		50				The state of the s	:		•			Andrew Company	20	30		40 50		70-7
5293		40 40		413		30	35 10	5 50				-	1			40 40		Dele
529 4	A. C. C. C. C. C. C. C. C. C. C. C. C. C.	40 40				10 15	10 15	20 10							4	36		
5295 5296		40				40			<u> </u>	_		*	-		- 5	35		
		32518.7	731.2	405	1158.4	526	1159	646.7	933	366	07 77 7	- CO- CO	7	7.50		31673.	7	TOTAL RI

TOTAL RE

31673.7

697.9 1662.8 16055.0 845

526

1159.

646.7

933

366

8177.7

1158.4

32518.7

731.2

)F					POWELL	P	ROVIN	CIAL F	OREST			· · · · · · · · · · · · · · · · · · ·	DATE 1930 SHEET NO59
		SOIL	CLASSI	FICATI						Statute Classific	ation	Merchantable Timber.	D TEM A D IV S
ED FOR	R AGRICUL					MMENDED I		ST. Crown Lane		LAN		11110011	REMARKS.
		CROWN LAND	Forest.	1st Class.	ALIENATED.	Forest.		2nd Class.	Forest.	First.	Second.	Acres. M.B.M.	
21.3	1st Class. 326	844	225.8		366	<u> </u>			15362.3 92.7	781	29586.0 92.7 40	!	Deleted, now part of Lot 5731
		35 35	5 - 39•6 5	,		The state of the s			7	·	39 _♦ 6 40	1	п ппппп
7, 10 \$2,000	25 5	15	35 40							10	30 40 40 40	. 17/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	
	10	10 30	20 10 39.6				,		*	a de la composição de l	40 39.6 40		
	5	20	15 40 40 40								40 40 40 25		•
32.1	25	10	5		The state of the s			35	11.7	15	32.1 46.7		
•								40 28 10	6.7 18.7 36		46.7 46.7 46	 	
	5	15	25 20		· ·			30 25	16 21	5	46 46 45 40		
	10	15_	•	1				10	46 36		46 46 46 46		
	15	30	1.7		-		5	35	11.7 41.7 35		46.7 46.7		
5	25 10	10 30	5						-	. 5 2 5	46. 40 35 40 38 45		
<u>-</u>	10				11 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1		25 10 5 15	25 25 20 20 20 15	16.7 27.1 5 25 40	_	51. 49.		
			· ·					15	25 40 40		30 40 40 40 40 40		. *
	5" 1 1 1 1 1 1 1 1 1						8	20 20 20	40 40 56.8 18.9 20		64+ 38+ 40		
	10 15	35 10 15	5 20 10	٠				20	30	4 5	50 40 40 36 35		Deleted, now part of Lot 5731
58.4	526	1159.	646.7	933	366	8177.7			16055.0	845	31673,	7	Total Recommended for Agriculture Acres; for Forest Acres

LAND CLASSIFICATION	OF
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POWELL

PROVINCIAL FOREST

	CLASSI	FICATION.					Statu Classifi		Merchantable	
and the same of th	and of the state o	REC	OMMENDED				of LA	f	Timber.	
<u> </u>	D.	ALIENATEI		3	Crown Land					
1st Class.	Forest.		-	1	2nd Class.		First.	Second.	Acres. M.B.	<i>1</i> .
933	646.7 8	933 366	8177.7	697.9	1662.8	16055.0	845 15 10 8 5	31673.7 25 30 32 35		
117	25 40 19 34.2	117 90	22			The state of the s	2	35 40 229 22 39.2		
Anna Anna Marian	1.2 30 15 20.2		The state of the s	The state of the s		40		61.2 79.4 40 50.2 39.9		Delete
- 1.24 AV AV AV AV AV AV AV AV AV AV AV AV AV				4 5	20 20 20 60 5	54 55 140 20 155	4	74 80 160 80 160		
	10 15				90	80 70		80 40 39,9 40,9		
	36			10 5	30 25 10	56 24.7 120 130	5	112 24.7 160 155 128.6	#	
77		20	35.	6	15 20	160 145 80 58•4		160 160 80 78.4 55.6	!	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	72	6	18		10 10	32.9 78.4 70 150	3	56.9 78.4 80 160		
				5 8	36 45 55	124 25.1 36.1 84.9 50.9	8	160 75.1 91.1 64.9 60.9		
	91 63 24.1				20	160 10 8	10 10 15	160 128 118 98		
	24.3	,	,		10	10 20	10 84.9 50.9 160 20 108	10 84.9 50.9 20 160 10 10 10	20 108 128 128 10 118 10 98 15 55.1	20 109 128 10 118 10 118 10 98 15 55•1

OF			5)		POWELL	<u>.</u> F	PROVIN	CIAL F	OREST					DATE 193.0 SHEET NO				
		SOIL	CLASSI	FICATIO	ON.					Stat	utory fication	Merc	hantable					
ENDED FOR	AGRICUI	LTURE.			RECO	DMMENDED	FOR FORES	ST.			of ND.	Timber.		REMARKS				
		CROWN LAN	D.		ALIENATED	1	<u> </u>	Crown Lan	D.									
Forest	1st Class.	2nd Class	Forest.	1st Class.	2nd Class.	Forest.	1	2nd Class.		First.	Second.	Acres.	M.B.M.					
1158.4	526 40 40 30 18	1159 10 14	646.7	933	366	8177.7	697.9	1662.8	16055.0	845 15 10 8 5	31673.7 25 30 32 35		·					
	5 4	10	25 40 19 34•2	117	90	22		and the state of t		5	35 40 229 22 39•2		• *					
29.4 15 39.9	Vilor	20 10 5 30	1.2 30 15 20.2		and the same of th	700 4000			40		61.2 79.4 40 50.2 39.9			Deleted - now part of Lot 5732				
							5	20 20 20 60 5	54 55 140 20 155	4	74 80 160 80 160							
5 39.9 15.9		10	10 15					90	80 70		40 39.9 40.9							
			36				10 5	20 30 25 10	56 24.7 120 130	5	112 24.7 160 155							
-		1			20	35.		15 20	160 145 80 58•4		160 160 80 78.4 55.6							
					6			10 10	32.9 78.4 70 150	3	56,9 78,4 80 160	The state of the s						
	30	58	72				5 8 10	36 45 55	124 25.1 36.1 84.9 50.9	8	160 75.1 91.1 84.9							
	25 25 20	12 20 26	91 63 24.1					20	160 10 9	10 10 15	160 128 118 98 55							
1303.5		1389		1050	400	DOEZ Z	744 0	91772	8_18482.0	QAR.	36024.	1		Total Recommended for Agriculture				

Section	o T		SOIL CLASSIFICATION.											Statutory Classification			
or Lot	74 T	otal cres.	RECOMMENDED FOR AGRICULTURE.							RECO	MMENDED) o:	f	Merchantable Timber.			
Number.	BI	10 TO 100		ALIENATED		Crown Land.			ALIENATED.				Crown Lan	D	∦ LA1	ND.	·
			1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	1st Class.	2nd Class.	Forest.	First.	Second.	Acres. M.B.M.
Carried fw 5481 5482 5483 5484	-	90.2 51.4 80 80	732.2	445	1303.5	763 45 15 8 32	1389 35 15 50 33	1150.4 10.2 21.4 22 15	1050	482	8253.3	744.9	2173.8	18482.0	945 25 5 5	36024.1 65.2 46.4 75	
5485 5486 5487 5488 5492 549 5		152 74.6 80 76.1 81.5 44.2				3 5 5	10 30 20	61.6 45 51.1				8	12	132 81.5	3 3	149 71.6 80 76.1 81.5	
5494 5495 5496 5497 5498]	80 80 80 80				25 20	25 29 25	30 51 35				5	15	44.2 139		44.2 159 80 80 80	
5499 5500 5501 5502		54.2 92.3 89.8 59.2				48 24 15	78 4 68.3 10 20	64.8 25.2	,			,			33 10 8 4	80 21.2 82.3 81.8 55.2	
5503 5504 5505 5506 5507		.21 80 80 73.7 80				10 4 40 36	100 76 28	12 29		-	•	12	20	41.7	5 4 16	116 76 64 73.7 56	
5508 5509 5510 5511 5512	2 15	80 80 05 5 56	2				,	100 100 100 100 100 100 100 100 100 100			155	10	8 15	80 62 190		80 80 205	
5513 5514 5515 5516 5517	2	79.9 38 91.1 91.1 91.1	,			60	25	6.1				25	25 71•1 20	79.9 188 20 71.1	,	156 79.9 238 91.1 91.1	-
5518 5519 5520 5541 5697		83.3 90 91.1 46 85.9			AND COMMENSATION OF THE PARTY O		:				85 •9		68 10	83.3 90 23.1 136		83.3 90 91.1 146	
TL.6502	4	26		3	7					!			49	377		85.9 426	
	411	77.8	732.2	445	1303.5	1174	2085.3	1643.0	1050.0	482.0	8494.2	804.9	2486.9	20476.8	1100.0	40077.8	200 A 200 A

OF					POWELL	F	ROVIN	NCIAL I	FOREST				1	DATE 193 0 SHEET NO. 61
DED EO	R AGRICUI		L CLASS	FICATI	The state of the s	MMENDED	FOR FOR	EST.		Statutory Classification of		Merchantable Timber.		
CROWN LAND. ALIENATED. CROWN LAND.											LAND.		1	REMARKS.
				1st Class.	2nd Class.		4 1 03			First.	Second.			
Forest.	1st Class.	2nd Class.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		†	Forest.	1st Class.					Acres.	M.B.M.	
03•5	763 45 15 8 32	1389 35 15 50 33	1150.4 10.2 21.4 22 15	1050	482	8253.3			18482.0	945 25 5 5 10	36024.] 65.2 46.4 75 70	Ž		
	3 5 5	10 30 20	61.6 45 51.1				8	12	132 81.5	3	149 71.6 80 76.1 81.5			
	25 20	25 29 25	30 51 35				5	15	44.2 139		159 80 80 80			
	2 48 24 15 14	78 4 68.3 10 20	64.8 25.2						and the second s	33 10 8 4	80 21.2 82.3 81.6 55.2	3		
	10 4 40 36	100 76 28	11 12 29	,			12	20	41.7	5 4 16 24	116 76 64 73.7 56			
						155	10	8 15	80 62 190		80 80 205 155 156			
<i>).</i> =	60	25	6.]				25	25 71.1 20	156 79.9 188 20 71.1		79.9 238 91.1 91.1		•	
						85.9		68 10	83.3 90 23.1 135		79.9 238 91.1 91.1 91.1 83.3 90 91.1 146 85.9			
								49	377		426	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-	, *
03.5	1174	2085.3	1643.0	1050.0	482.0	8494.2	804.9	ì	20476.8	1100.0	40077.8	7 (10 m)		
							-							Total Recommended for Agriculture 7383.0 Acres; for Forest 33794.8 Acres.

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Detailed boundaries of the Powell Forest

The detailed boundaries of the Powell Forest as recommended for gazetting are as follows:-

Commencing at the north-east corner of Lot 2358 the boundary runs west along the north boundary of the said Lot 2358 to the north-west corner of the same; thence westerly along the north boundary of Lot 4901 to the north-west corner of same; thence west to the north-west corner of Lot 4168; thence north to the north-east corner of Lot 4167; thence west to the north-west corner of said Lot 4167; thence north to the north-east corner of Lot 4163; thence westerly along the north boundary of said Lot 4163 to the south-east corner of Lot 4162; thence north to the north-east corner of said Lot 4162; thence west to the north-west corner of Lot 4161; thence north along the east boundary of I.R.No.1 (Sliammon) to the south boundary of Lot 846; thence east to the height of land between Sliammon and Powell Lakes; thence in a northerly direction to the south-west corner of Lot 3038; thence along the west boundary of said Lot 3038 to the northwest corner of the same; thence west to the height of land of the Powell Lake watershed; thence in a north-westerly direction along the height of land to a point due east of the south-east corner of Lot 2479; thence west to the said southeast corner of the said Lot 2479; thence north along the east boundary of Lot 2479 to a small lake; thence around the west side of said lake to a point on the east boundary of Lot 2480; thence north to the north-east corner of Lot 2481; thence west to the north-west corner of the said Lot 2481; thence north 2 miles more or less to a point due west of the south-west corner of Lot 3488; thence east to the south-east corner of the said Lot 3488; thence north to the north-east corner of the same; thence east to the south-east corner of Lot 2640; thence north to the north-east corner of the said Lot 2640; thence east to the south-east corner of Lot 1272; thence following the south and east boundaries of Lot 1584 to the most easterly north-east corner of the said Lot 1584; thence north to the most westerly south-west corner of sub-lot 2 of Lot 1527; thence along the south boundary of the said sub-lot 2 to the west boundary of Lot 521; thence south along the said west boundary of the said Lot 521 to the south-west corner of the same; thence east to the shore of Powell Lake; thence along the shore in a northerly and easterly direction to the east boundary of Lot 4719; thence north along the said east boundary to the north-east corner of the said Lot 4719; thence west to the north-west corner of the same; thence north to the north-east corner of sub-lot 1 of Lot 1527; thence west to the north-west corner of the said sub-lot 1; thence north to the north-east corner of sub-lot 3 of Lot 1527; thence west to the south-east corner of sub-lot 6 of Lot 1527; thence north to the north-east corner of sub-lot 7 of Lot 1527; thence west to

the south-east corner of sub-lot 8 of Lot 1527; thence north to the north-east corner of the said sub-lot 8; thence west to the south-east corner of sub-lot 9 of Lot 1527; thence north to the north-east corner of sublot 10 of Lot 1527; thence north one mile; thence east four miles; thence north approximately 64 miles to the south boundary of Lot 438; thence west to the most southerly south-west corner of the said Lot 438; thence north one mile: thence west approximately 15 miles; thence north to the most westerly south-west corner of Lot 438: thence north one mile; thence west half a mile; thence north 3 miles; thence east 12 miles; thence north 4 miles; thence east 5 miles; thence south 12 miles; thence east 2 miles; thence south 1 mile; thence east 5 miles; thence south 2 miles; thence west 5 miles; thence south 4 miles; thence east 32 miles; thence south 4 miles; thence east 4 miles; thence south 6 miles; thence west 2 miles; thence south 9 miles; thence east 4 miles; thence south 2 miles to a point due west of the north-west corner of S.T.L. 13296: thence east approximately 1 mile to the said north-west corner of the said S.T.L.13296; thence east to the shore of a small lake; thence around the north shore of the said lake to the south boundary of Lot 1908; thence east to the south-east corner of the said Lot 1908; thence in a southerly direction along the height of land between Hotham Sound and Prince of Wales Reach to the most westerly north-west corner of S.T.L. 7569; thence along the west boundary of the said S.T.L.7569 to the most southerly south-west corner of same; thence in an easterly and southerly direction along the height of land of the said watershed between Hotham Sound and Prince of Wales Reach to the shore of Prince of Wales Reach near Dacres Point; thence following the shore of Jervis Inlet via the shore of Hotham Shund in a southerly and westerly direction to the south-east corner of Lot 2091: thence north to the north-east corner of the said Lot 2091; thence west to the north-west corner of the same: thence south to the shore of Jervis Inlet; thence in a westerly direction along the said shore to the south-east corner of Lot 4121; thence north to the north-east corner of the said Lot 4121; thence west to the north-west corner of Lot 1630; thence south to the shore of Jervis Inlet; thence in a westerly direction along the said shore to the south-west corner of Lot 2558; thence north to the north boundary of Lot 3836; thence westerly along the north boundary of same to the eastern boundary of Lot 3504; thence west to the east boundary of Lot 3835; thence south to the south-east corner of the said Lot 3835; thence west to the north-west corner of Lot 3505; thence north to the north-east corner of Lot 2676; thence west to the north-west corner of Lot 4422; thence north to the north-east corner of Lot 4420; thence west to the east boundary of Lot 4418; thence south to the south-east corner of the said Lot 4418; thence west to the west side of Lois River; thence in a northerly

direction along the west side of the said Lois River to the north boundary of Lot 4409; thence west to the northwest corner of Lot 4411; thence north to the north-east corner of Lot 4415; thence north approximately 50 chains; thence west approximately 60 chains to the north east corner of Lot 5892; thence north 45 chains; thence west 60 chains; thence north approximately 40 chains; thence west approximately 75 chains to the east boundary of Lot 5502; thence north along the said boundary to the northeast corner of Lot 5502; thence north to the north-east corner of Lot 5501; thence east approximately 40 chains; thence north approximately 80 chains to a point due east of the north-east corner of Lot 5477; thence west approximately 40 chains to said corner; thence south to the southeast corner of Lot 5477; thence west to the south-west corner of Lot 5476; thence north to the south-east corner of Lot 5474; thence west to Lang Creek; thence in a northwesterly direction along Lang Creek and the west boundary of Lot 5474 to the north-west corner of said Lot 5474; thence west to the south-west corner of Lot 5462; thence north to the north-west corner of Lot 5456; thence north approximately 50 chains to the south boundary of Lot 915; thence east to Haslam Lake; thence along the shore of said lake in a general northerly, westerly and northeasterly direction to the east boundary of Lot 5438; thence north to the north-east corner of the said Lot 5438; athence west to the north-west corner of Lot 5439; thence south to the south-west corner of the said Lot 5439; thence west and south along the north and west boundaries of Lot 5451 to the south-west corner of the same; thence west to the north-west corner of Lot 5453; thence following the north-east boundary of Lot 4614 to the north-east corner of Lot 5200; thence west to the south-east corner of Lot 4613; thence following the north-east boundary to the north-east corner of Lot 4067; thence west to the shore of Powell Lake; thence following the shore of Powell Lake in a westerly and northerly direction to the point of commencement, i.e. the northeast corner of Lot 2358.

One block, excluded from the forest area, lies wholly within the forest boundaries. The detailed boundaries of this block are as follows:- Commencing at the south-west corner of Lot 4728 the boundary runs north to the north-west corner of the said Lot 4728; thence west to the south-west corner of Lot 4727; thence north and east along the west and north boundaries of the said Lot 4727 to the north-east corner of the same; thence north to the north-west corner of Lot 4726; thence east to the north-east corner of Lot 4725; thence south to the north-west corner of Lot 4724; thence east, south and west along the north, east and south boundaries of the said Lot 4724 to the south-west corner of the same; thence south to the shore of Giovanno Lake; thence in a westerly and southerly direction along the shore of the said Giovanno Lake to the south boundary of Lot 4728; thence west to the point of commencement.

APPENDIX III

Volume tables and yield tables used:

The volume tables used were made by J.L. Alexander in 1924 from data obtained in a large number of logging operations typical of all coast conditions. These tables are total height tables divided into three site classes, i.e. short, medium, and tall. The tables were available for fir, cedar and hemlock only. For other species the old log-length tables, also compiled by Alexander, were used.

No yield tables were available but estimates typical of average coast conditions and also compiled by Alexander were used. These estimates appear on page. ||. under "management recommendations".

Method of survey:

Field methods of the survey were based on the instructions for forest surveys issued in 1928.

Cost of survey:

Total acreage examined for forest cover =210,200 acs.

Total " " for land classification = 40,935 "

Cost of survey applied for forest cover work = \$2,932.57

Cost of survey applied to land classification = 1,901.75

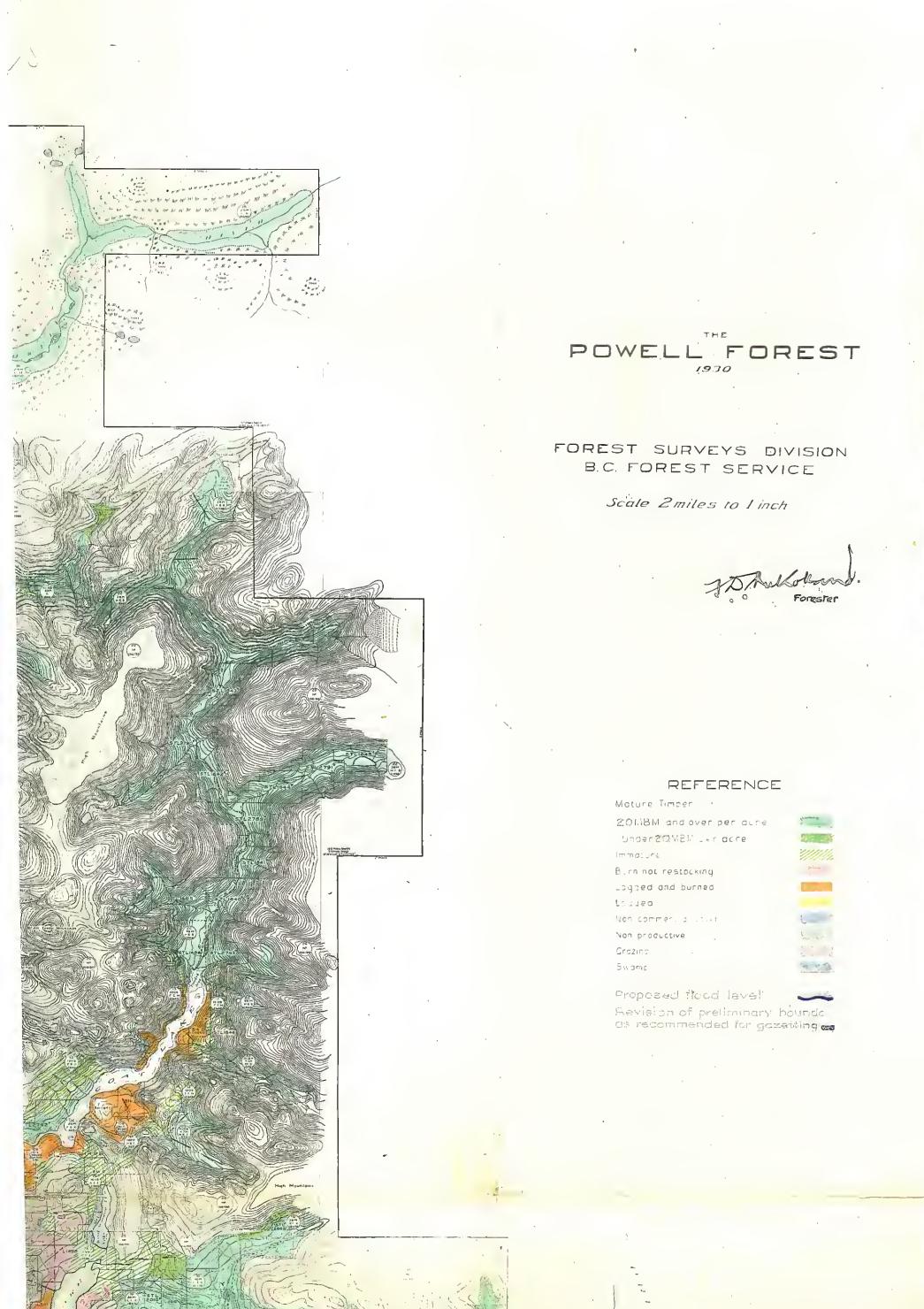
Total cost of survey \$4,832.32

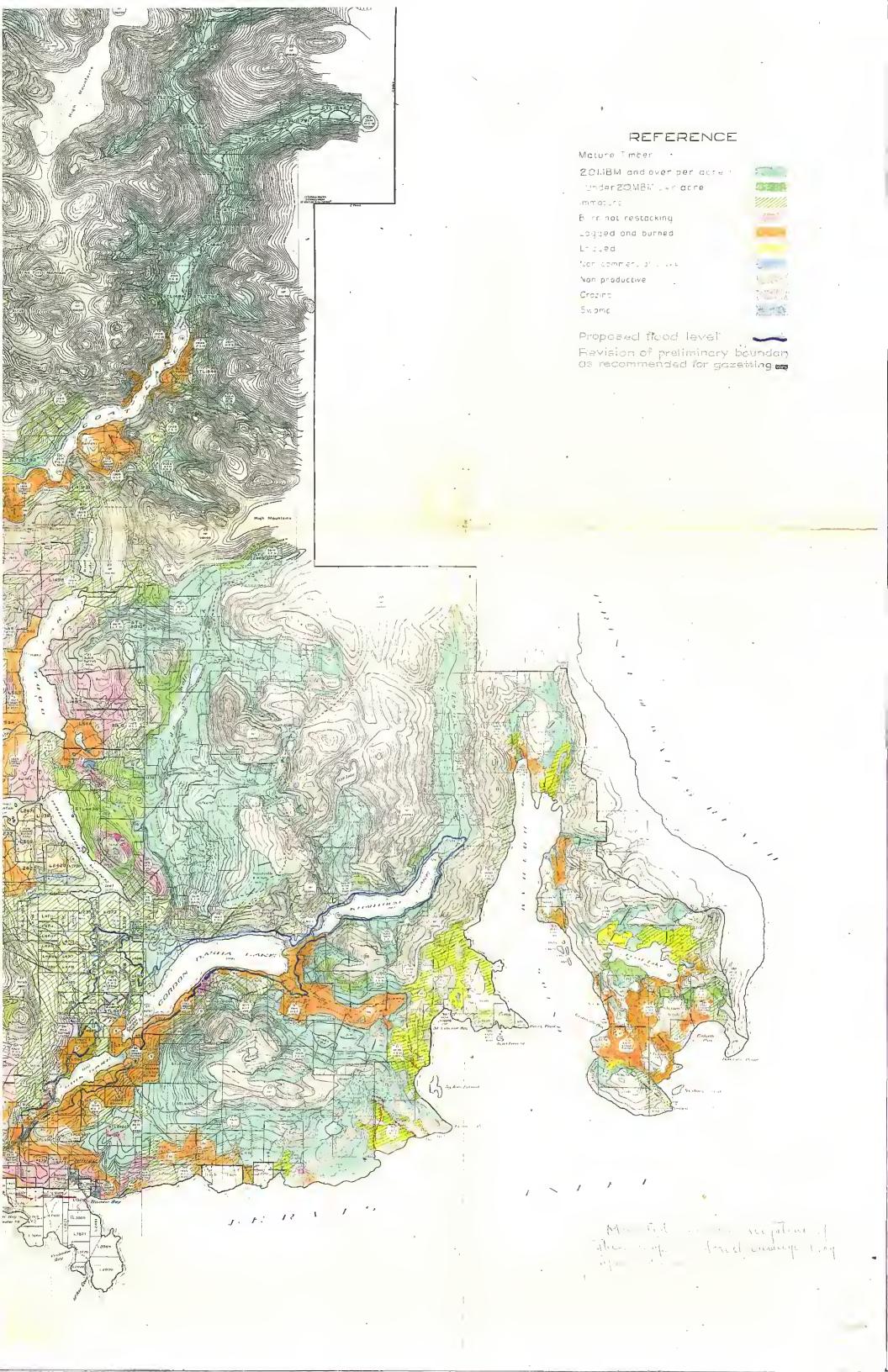
Cost per acre of forest cover examination = \$.014

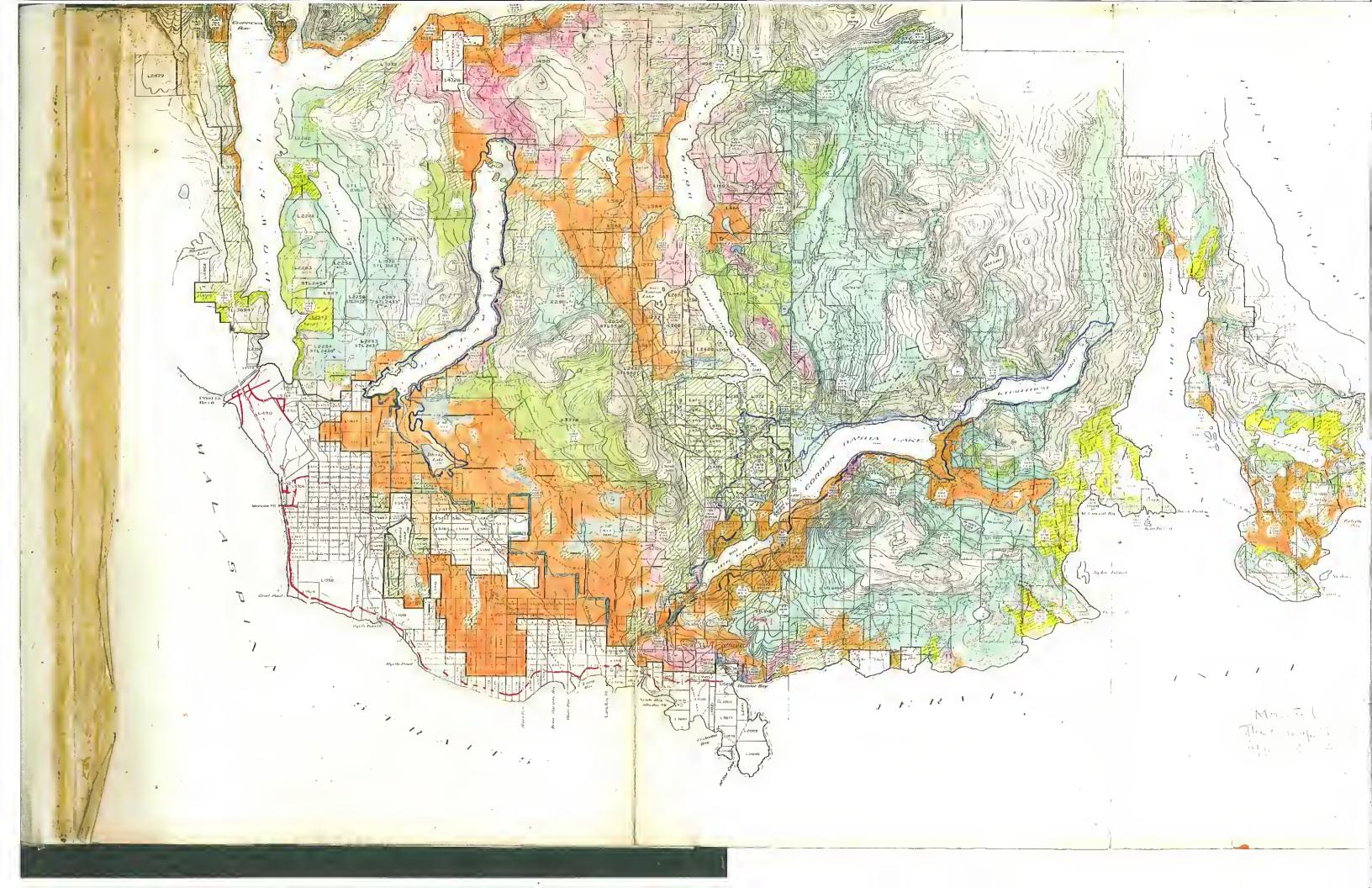
cost per acre based on gross area of forex . ong

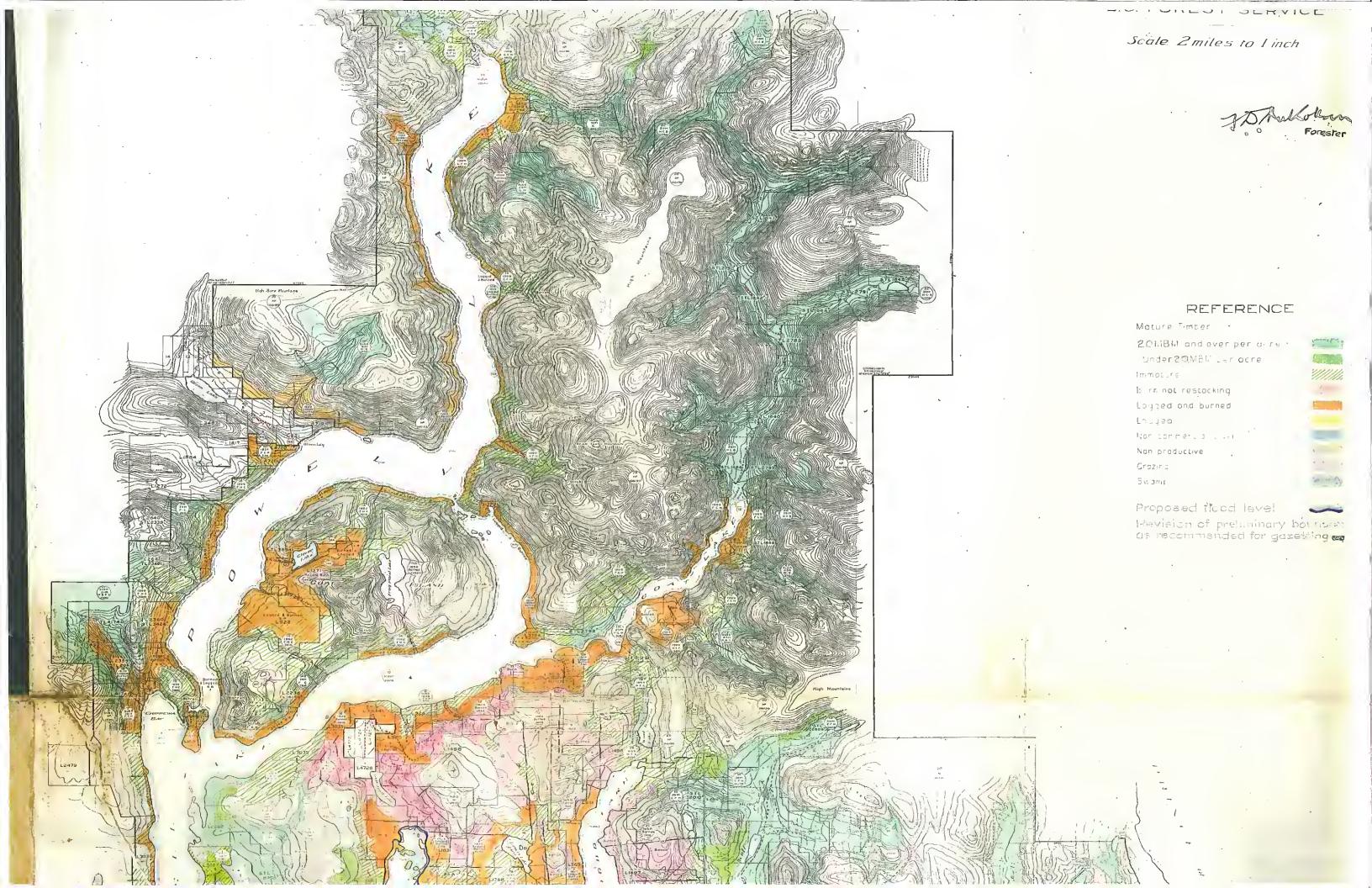
Base maps:

The base maps of the Fowell Forest were made from Lands Department Reference Maps # 5 and #6. These maps were enlarged to the required scale of 40 chains to the inch. Topography and forest types were obtained for the majority of the alienated timber licences from private sources. Private triangulation and flood level maps were used for the locating of strips and plotting of proposed flood level contours.











POWELLFORES

FOREST SURVEYS DIVISION B.C. FOREST SERVICE

Scale 2 miles to 1 inch

J. Aullohand Forester

REFERENCE

Mature Timber .